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PERSONAL.

Mr. Thomas Main has been appointed Superintendent of the Water-Works of Marblehead, Mass.

Mr. John Tilton McClintock, architect, has opened an office at 57 Fiske Bldg., 89 State St., Boston, Mass.

Mr. William A. Murray has been appointed Assistant Instructor in Civil Engineering in the University of Maine.

Mr. L. D. Hopkins, Superintendent of the Missouri Pacific Ry., with offices at Sedalia, Mo., has resigned his position. He will be succeeded by Mr. D. Hardy.

Mr. Henry Lowd, Manager of the Nicopol, Mining & Metallurgical Co., of Mariopul, Russia, is visiting the United States.

Mr. M. L. Lynch has been appointed Chief Engineer of the St. Louis Southwestern Ry., with headquarters at Tyler, Tex., the position of resident engineer being abolished.

Mr. Frank S. Bond, for fourteen years Vice-President of the Chicago, Milwaukee & St. Paul Ry., and in charge of that company's offices in New York city, will resign his position on January 1.

Mr. Alfred Lovell, formerly Assistant Superintendent of Motive Power, has been appointed Superintendent of Motive Power on the Northern Pacific Ry., to succeed Mr. William Forsythe, resigned.

Mr. Joseph McWilliams, of Marietta, Ga., General Manager of the Atlanta, Knoxville & Northern Ry., has resigned his position. Mr. John B. Newton, Chief Engineer, is now Acting General Manager.

Mr. C. A. Van Dusen, Trainmaster of the Toledo Division of the Wheeling & Lake Erie R. R., has been appointed Superintendent of the Cleveland Division, to succeed Mr. F. H. Keeshin, who has resigned.

Mr. Cass Gilbert, of St. Paul, Minn., has been recommended as architect for the new custom house building for New York city, by a special committee on plans appointed by the Secretary of the Treasury.

Mr. Phil H. Weber, C. E., has been elected City Engineer of Canton, O., to succeed Mr. Loomis E. Chapin, M. Am. Soc. C. E., resigned. Mr. Weber has been connected with this office for the past twenty years.

Mr. Herbert Schneider has been appointed Instructor in Civil Engineering at Lehigh University. Messrs. Robert M. Wilson, of Cornell, and Barry MacNutt, of Lehigh, have been appointed instructors in electrical engineering.

Messrs. O. E. Jacobs, of the Massachusetts Institute of Technology, and W. H. Freedman, of Columbia University, have been appointed to fill vacancies in the chemical and electrical departments of the University of Vermont.

Mr. Herbert S. S. Smith, Assoc. M. Am. Soc. C. E., has been appointed Professor of Applied Mechanics in the School of Science of Princeton University. Mr. W. H. Detrich has been appointed Instructor in Civil Engineering.

Mr. William S. Aldrich, M. Am. Soc. M. E., formerly Professor of Mechanical Engineering of the University of West Virginia, has been appointed Professor of Electrical Engineering of the University of Illinois, at Champaign, Ill.

Mr. Leyde, Chief Engineer of Ludwig Loewe & Co., of Berlin, Germany, manufacturers of machine tools, is in the United States for the purpose of obtaining information as to American foundry methods. His company is about to erect two additional foundries.

Capt. H. B. Denker, formerly President of the St. Charles Car Co., has resigned his position as District Manager of the American Car & Foundry Co., at St. Louis, Mo., and has been succeeded by Mr. James G. Lawler, who has heretofore been Assistant Manager.

Mr. John N. McClintock, civil engineer and land surveyor, President and General Manager of the American Sewage Disposal Co., of Boston and New York, while maintaining his old office at 268 Washington St., Dorchester, Mass., has opened an office at 57 Fiske Bldg., 89 State St., Boston, Mass.

Mr. G. T. Ross has been appointed General Superintendent of the Montana Central line of the Great Northern System, in place of Mr. H. E. Byram, transferrred to the superintendency of the Cascade Division in place of Mr. H. R. Bowman, resigned. Mr. J. M. Davis has been appointed Superintendent of the Breckenridge Division, vice W. T. Tyler, transferred; Mr. B. F. Egan has been appointed Superintendent of the Northern Division, to succeed Mr. W. N. Neff, transferred to the Kalispell Division.

Mr. John H. Griffith, M. S., C. E., late Computer and Assistant Engineer with the Union Bridge Co., of Athens, Pa., has been elected Professor of Civil Engineering in the Clarkson School of Technology, at Potsdam, N. Y. He was formerly instructor at this college in pure and applied mechanics.

Mr. William I. Allen, Assistant General Manager of the Chicago, Rock Island & Pacific Ry., has resigned his position, after a service in that company of 30 years. Mr. A. J. Hitt, General Superintendent of Lines East of the Missouri, becomes General Superintendent of the entire system, and will assume Mr. Allen's former duties.

The faculty of the Massachusetts Institute of Technology has had the following changes made in its personnel: Dr. Arthur A. Noyes has been appointed Professor of Theoretical and Organic Chemistry; Mr. Jerome Sondericker, C. E., is now Professor of Applied Mechanics; Mr. Allyne L Merrill has been made Associate Professor of Mechanism; Mr. Edward S. Miller has been raised to the rank of Associate Professor of Steam Engineering, and Dr. George V. Wendell, after a three-years' absence in Germany, will resume his duties as Instructor in Physics.

The faculty of Columbia University will have the following changes made in its personnel: Mr. William Ledyard Cathcart has been appointed Adjunct Professor of Mechanical Engineering; Mr. William B. Johnstone, Assistant in Physics; Mr. Oscar R. Wilson, Assistant in Mechanical Engineering; Mr. Barry Hogarty, Assistant in Analytical Chemistry; Dr. Frederick J. Pope, Assistant in Analytical Chemistry; Mr. Emilius W. Scherr, Jr., Assistant in Organic Chemistry, and Dr. Henry Clapp Sherman, Lecturer in Analytical Chemistry.

Rear Admiral J. G. Walker, retired, U. S. N.; Mr. Alfred Noble, M. Am. Soc. C. E.; Col. Peter C. Hains, M. Am. Soc. C. E., and Prof. W. H. Burr, M. Am. Soc. C. E., members of the committee of the Isthmian Canal Commission, who went to Paris to study the work of the Panama Canal Co., returned to the United States on the steamship "New York," on Oct. 1, after a stay abroad of six weeks. The committee spent one month in Paris and afterward made a tour of inspection, visiting some of the great canals in England and on the Continent.

Dr. H. S. Pratt, of Haverford College, will this year fill the chair of Prof. Emory R. Johnson, at the University of Pennsylvania, who has been appointed a member of the Isthmian Canal Commission by President McKinley. Mr. Martin G. Lloyd, who has recently returned from Berlin, will become Instructor in Physics. Other appointments are: Drs. W. L. Hardin and H. W. F. Lorenz, instructors in chemistry; Messrs. F. W. Mann and H. R. Elliott, instructors in architecture; Mr. H. D. Tiernann, Instructor in Mechanical Engineering, and Mr. John P. J. Williams, Instructor in Civil Engineering.

The Cornell University faculty will undergo the following changes in its personnel: Mr. A. C. Philips has been appointed as Instructor in Architecture, to succeed Mr. Edwin B. Higby; Mr. C. C. Major, Instructor in Experimental Engineering in Sibley College, and Messrs. A. O. Johanson and George E. Smith, respectively Instructor and Assistant in the College of Civil Engineering. Mr. Andrew E. Tuck has been appointed Instructor in Military Science. Mr. John Joseph Swann, formerly on the editorial staff of Engineering News, and now with the Ingersoll-Sergeant Drill Co., will be the first non-resident lecturer in the Sibley College course of this year.

OBITUARY.

Mr. James W. Moore, for twenty-five years Superintendent of the Water-Works of Natick, Mass., died on Sept. 23, aged 68 years.

Mr. Henry Meyerholz, who was for twenty-seven years Superintendent of the Broadway R. R. Co., of Brooklyn, N. Y., died at his home in Brooklyn of paralysis, on Oct. 2, aged 55 years.

Gen. Henry Heth died at his home in Washington, D. C., on Sept. 27, aged 74 years. He graduated from the West Point Military Academy in 1847, and served during the Civil War as a Major General of the Confederate forces.

Mr. Richard Carroll, formerly General Manager of the Cincinnati Southern Ry., and Vice-President and General Manager of the Mobile & Ohio R. R. from February, 1895, to April, 1899, died in Cincinnati, O., on Sept. 29, aged 52 years.

Mr. Jacob C. Cramp, son of William Cramp, the founder of the Cramp Ship & Engine Building Co., of Philadelphia, died at his home at Rosemont, Pa., on Sept. 30, aged 64 years. Mr. Cramp had been retired from business since 1883.

Mr. Richard Caffery, Supervisor of Maintenance of Way on the Lehigh Valley R. R., died at his home at Bethlehem, Pa., on Sept. 26, aged 63 years. He had been in the company's employ for 45 years, and was President of the Roadmasters' Association of the United States for two terms.

Mr. John H. Fenner died at his home in Jersey City, N. J., from heart disease, on Oct. 3, aged 61 years. When a young man he organized the Albany Dredging Co., of Albany, N. Y., and in 1879 he went to Jersey City to superintend the dredging for the National Docks & Storage Co., at Cavan Point.

Samuel Nott, an old-time civil engineer, died at Hartford, Conn., on Oct. 2. Mr. Nott was the son of a missionary to India, and was born in Bombay in 1812. His first service in this country was with the Boston & Worcester Railway, and in 1854 he was Chief Engineer of the Boston & Lawrence Railway. In 1864 he became Superintendent and Engineer of the old Hartford, Providence & Fishkill Railway, and held that position until 1885. He wrote a number of articles on railway construction for the technical press.

Mr. C. J. Hepburn died at Harrisburg, Pa., from locomotor ataxia, on Sept. 24, aged 58 years. He began his railway career as a railway telegraph operator. In 1867 he served on the Warren & Franklin R. R. as Trainmaster, under Superintendent Cassatt, and upon the latter's appointment as Superintendent of Motive Power, Mr. Hepburn was appointed Superintendent. Upon the consolidation of the Oil Creek R. R. and the Warren & Franklin R. R. in 1868 he was made Division Superintendent, and in 1876, Superintendent of the whole system. In 1879 he went to Chicago as Superintendent in charge of construction of the Chicago & Western Indiana R. R. through Chicago; and in 1881 he went to Evansville, Ind., as Superintendent of the Evansville & Terre Haute R. R. In 1883 he was made Superintendent of the Cincinnati, Hamilton & Dayton Ry. He resigned as General Superintendent of this last railway in 1884 owing to ill health.

ENGINEERING SOCIETIES.

COMING GENERAL MEETINGS.

THE FRANKLIN INSTITUTE.
75th anniversary, Oct. 2 to 7, at Philadelphia, Pa. Secy., W. H. Wahl, 15 South 7th St., Philadelphia, Pa.

AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.
Oct. 10. At New York. Secy., C. A. Hammond, Asbury Park, N. J.

DEEP-WATERWAY CONVENTION.
Oct. 10 and 11. At Peoria, Ill. Secy., R. R. Bourland, Peoria, Ill.

OHIO ELECTRIC LIGHT ASSOCIATION.
Oct. 10-12. At Cleveland, Ohio. Secy., Samuel Scovil, Cleveland, O.

AMERICAN RAILWAY ASSOCIATION.
Oct. 11. At New York. Secy., F. W. Allen, 24 Park Place, New York.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 17. At Chicago. Secy., T. C. Pennington, Chicago, Ill.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 17. At Detroit. Secy., S. F. Patterson, B. & M. R. R., Concord, N. H.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 18 to 20. At New York. Secy., Alfred E. Forstall, 58 William St., New York.

AMERICAN INSTITUTE OF ARCHITECTS.
Nov. 13 to 15. Annual meeting at Pittsburg, Pa. Secy., Glenn Brown, The Octagon, Washington, D. C.

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.
Nov. 16 and 17. Annual meeting at New York. Secy., Francis T. Bowles, 12 West 31st St., New York city.

COMING LOCAL MEETINGS.

CHICAGO ELECTRICAL ASSOCIATION.
Oct. 6. Secy., Cloyd Marshall, 1310 Monon Bldg., Chicago, Ill.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
Oct. 6. At San Francisco. Secy., O. Von Geldern, 649 Market St., San Francisco, Cal.

ENGINEERS' CLUB OF COLUMBUS.
Oct. 7. Secy., H. M. Gates, 12½ North High St., Columbus, O.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
Oct. 10. Secy., W. H. Searles, Case Library Bldg., Cleveland, O.

DENVER SOCIETY OF CIVIL ENGINEERS.
Oct. 10. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.

NEW ENGLAND RAILROAD CLUB.
Oct. 10. At Boston. Secy., Edw. L. Jones, P. O. Box 1158, Boston, Mass.

NORTHWEST RAILWAY CLUB.
Oct. 10. At Minneapolis. Secy., T. A. Fogue, Soo Line, Minneapolis, Minn.

ST. LOUIS RAILWAY CLUB.
Oct. 13. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.

ENGINEERS' CLUB OF CINCINNATI.
Oct. 17. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Oct. 17. At Pittsburg. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Oct. 18. At New York. Secy., C. W. Hunt, 220 W. 57th St., New York city.

BOSTON SOCIETY OF CIVIL ENGINEERS.
Oct. 18. Secy., S. E. Tinkham, City Hall, Boston, Mass.

ENGINEERS' CLUB OF ST. LOUIS.
Oct. 18. Secy., Richard McCulloch, 2401 N. Spring Ave., St. Louis, Mo.

NEW YORK RAILROAD CLUB.
Oct. 19. At New York city. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.

MONTANA SOCIETY OF CIVIL ENGINEERS.
Oct. 21. At Helena. Secy., Albert S. Hovey, Helena, Mont.

ENGINEERS' CLUB OF MINNEAPOLIS.
Nov. 2. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Nov. 6. At Buffalo. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Nov. 7. At New York. Secy., Francis E. Frothingham, 12 W. 31st St., New York city.

CENTRAL RAILWAY CLUB.
Nov. 10. At Buffalo. Secy., H. D. Vought, 114 5th Ave., New York city.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.—The first regular meeting of the season was held at 12 West 31st St., Sept. 27, President Kennelly in the chair. The paper of the evening, by Prof. William Lispenard Robb, of Hartford, Conn., was on "Series Arc Lighting from Constant Current Transformers," and a working model of the apparatus was shown. The discussion was participated in by Messrs. Fleming, Hallberg, and Steinmetz.

ENGINEERS' CLUB OF CINCINNATI.—The regular monthly meeting of the club was held on Sept. 21. Mr. W. M. Venable, who was connected with the Engineer Corps of the United States Army during the late war with Spain, entertained the club with a description of the work accomplished by that branch of the service in the establishment and maintenance of the large camps at Montauk Point, N. Y., and at Mariano, Cuba.

J. F. Wilson, Secy.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.—At the first monthly Juniors' meeting of the season, held at the society rooms, 12 W. 31st St., New York city, Oct. 3, a paper was read by Mr. Henry E. Longwell on "The Westinghouse Gas Engine." Lantern slides were shown fully illustrating the details of this engine, and an outline drawing was exhibited of the 1,500-HP. engine now in actual construction at Pittsburg, Pa. It was stated that a number of engines of the 650-HP. size were at present being installed.

THE AMERICAN RAILWAY ASSOCIATION.—The fall meeting of the association will be held at New York city on Oct. 11, 1899. Reports will be presented by the following committees: Executive Committee; Committee on Train Rules; Committee on Car Service; Committee on Safety Appliances; Joint Committee on Interlocking and Block Signals; Nominating Committee; Committee on the Metric System; Committee on Statistical Inquiry; Com- Committee on Revision of Rules of Order, and the Committee on Standard Dimensions of Box Cars.

W. F. Allen, Secy.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.—The ninth annual convention of the association will be held at Detroit, Mich., Oct. 17 to 19, 1899. The first day and the forenoon of the second day will be devoted to business matters. For the afternoon of the second day, Mr. W. S. Danes, Chairman of the Executive Committee, has arranged for several trolley excursions in conjunction with Mr. O. A. Bierce, the Secretary of the Detroit Convention and Business Men's League, including a trip to Mount Clemens, the water-works, and other places of interest around the city. Also a cab ride for the ladies, when a number of the Detroit ladies will accompany them to the different points of interest.

S. F. Patterson, Secy.

NEW PUBLICATIONS.

ANNUAL REPORT, AMERICAN RAILWAY MASTER-MECHANICS' ASSOCIATION.—Secretary, J. W. Taylor, Chicago, Ill. Cloth; 6 × 9 ins.; pp. 314; illustrated.

This report contains the proceedings and papers of the Association at its annual convention held at Old Point Comfort, Va., June 19 to 21, 1899.

BERICHT UEBER DIE AUS ANLASS DES FUENFTZIGJAEHRIGEN BESTANDES DES OESTERR. INGENIEUR-UND ARCHITEKTEN-VEREINES VERANSTALTETEN FESTLICHKEITEN.—Zusammengestellt von Paul Kortz, Wien; Verlag des Oesterr. Ingenieur-und Architekten-Vereines. Paper, 10 × 13 ins.; pp. 103; illustrated.

This is a report of the festivities held at Vienna, March 17 to 19, 1899, celebrating the 50th anniversary of the founding of the Austrian Society of Engineers and Architects. A full account of the transactions is given, together with the names and addresses of those attending. The book is beautifully printed and illustrated.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

CHILLED CAR WHEELS, VALVES AND FIRE HYDRANTS.—Cayuta Wheel & Foundry Co., Sayre, Pa. Paper; 6 × 4½ ins.; pp. 51; illustrated.

This is a price list and catalogue of gates and valves of various types; fire-hydrants, automatic air-valves, valve-boxes, etc. Included are all manner of tools connected with the laying of pipe, and the pipe itself with bends, specials, etc. This company also makes the Q. A. W. hydrant connection and hose-coupling. The latter part of the catalogue is devoted to cast-iron chilled car-wheels, mounted on axles or loose.

WINDMILLS.—Stover Mfg. Co., Freeport, Ill. Paper; 5½ × 8 ins.; pp. 52; illustrated.

This pamphlet describes the steel mills and towers built by the above company, and adapted to supply power for pumping or other purposes. Many excellent half-tone cuts of mills now installed, together with tank towers and other accessories of windmill pumping plants, are scattered through the pages. Among other data, a table is given, showing the power delivered by the various sizes of mills at different wind velocities.

ELECTRIC WIRE COMPUTER.—Designed by William Cox. The International Okonite Co., Ltd., New York city. Cloth; 6½ × 6½ ins.

This computer consists of a graduated disk rotating over a circular scale, and uses the principle of the logarithmic scale, like the ordinary slide rule. When the strength of current, length of circuit and desired drop in potential are known, the size of wire, either in mils or in B. & S. gage can be read with a single setting of the scale. We have described a number of Mr. Cox's ingenious mechanical computers in former issues. In Engineering News for June 18, 1895, will be found a description of his computer for Kutter's pipe formula, which the one before us resembles in general appearance.

CRUSHERS AND PULVERIZERS.—Fraser & Chalmers, Chicago, Ill. Paper; 9 × 6 ins.; pp. 105; illustrated.

The above firm manufactures the Comet, Blake, Dodge and other crushers, improved crushing rolls and ball pulverizing mills, as well as all manner of machinery for the treatment of ores, and for pumping, hoisting and power stations. They call especial attention to the adjustable "Comet" crusher, for which the chief claims are as follows: Reducing manual labor to a minimum; crushing surfaces on curved lines, facilitating cleavage and meaning economy in power; long wear of jaw-plates; adjustment to size of product without stopping the machine; has all the advantages of the gyratory crusher, etc. Fraser & Chalmers issue about 30 special catalogues and circulars describing the various classes of machinery made, and any of these will be sent on application.

CRANES AND AIR HOISTS.—Whiting Equipment Co., Harvey, Ill. Paper; 6 × 9 ins.; pp. 100; illustrated.

This is a handsome descriptive catalogue of hand, electric and compressed air traveling cranes, ranging from 2 to 50 tons capacity, and fitted either with the ordinary hoisting arrangement or with a direct air-hoist suspended from the trolley. Traveling gantry cranes for factory and bridge yards, jib cranes and derricks for yard use and on board freight steamers, and other special designs of cranes are also shown. The catalogue is illustrated by views of the cranes, and their machinery and parts, and there are several views showing the different styles of cranes installed at manufacturing plants, etc.

PIPE AND BOILER COVERINGS.—The Philip Carey Mfg. Co., Lockland, O. Paper; 4½ × 6¾ ins.; pp. 32; illustrated; indexed.

Descriptions of the boiler and pipe coverings made by this company comprise the contents of this book. Among them are asbestos-magnesia for high-pressure steam pipes; wool felt for hot water pipes and for steam pipes in wet mines; asbestos and felt for low-pressure steam and hot water pipes; wool felt; air chamber covering for ammonia; brine, oxide and ice water pipes; asbestos-magnesia in blocks for large steam pipes, boilers, domes, drums, etc., and in sectional lagging for locomotive boilers, heaters, tanks, etc.; asbestos furnace stove lining, hot blast and retort cements, hair felt; asbestos sheathing and mill board; mineral wool; asphalt varnish and flexible cement roofing. A partial list of users and testimonials complete the circular.

CHEMICALIZING APPARATUS.—The Thompson-Nuhring Chemical Co., Cincinnati, O. Paper; 4¾ × 6½ ins.; pp 12; illustrated.

The device described by this book is intended for fire extinguishing, disinfecting, and fertilizing, and consists of six vertical cylinders, 10 ins. in diameter and 20 ins. in height, connected in a series and having a rubber hose attached to either end, one of which is coupled to the fire hydrant, and the other terminating in a nozzle. The whole apparatus is mounted upon a four-wheeled hand truck, and is intended to "chemicalize" the stream of water as it comes from the fire plug or hydrant and passes through the various cylinders in succession. The claim is made for the machine that when the chemicalized water comes in contact with heat, a large volume of gas, inimical to fire, is liberated and extinguishes the flames without ruining property by water. Smaller machines are also made for dwellings, public buildings, etc.

CLASSIFIED DIRECTORY OF ADVERTISERS.—The Engineering News Publishing Co., New York, N. Y. Paper; 3¾ × 9¾ ins.; pp. 83.

This pamphlet contains a classified alphabetical list of the various engineering materials, contractors' plant, machinery, tools and general engineering supplies which are advertised in Engineering News, together with the names and addresses of the advertisers who manufacture or supply them. Altogether the 83 pages contain 1,078 separate items or headings and the names and addresses of over 750 different persons and firms. It is to be expected that there are many omissions and some errors in these lists, but considering the limited time and space available without making the book too bulky or delaying its publication so long as to make its information out of date, they are believed to be as accurate and complete as it is practicable to make them in a first draft, and the errors will be corrected in future editions. It is believed that the directory will prove useful to engineers and contractors and other purchasers of material, and to all such who will make application to the publishers a copy will be mailed gratis.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News.
Oct. 5.	Macadamizing, Paterson, N. J.		Sept. 28
Oct. 5.	Pipe sewers, Findley, O.		Sept. 28
Oct. 5.	Power plant, Niagara Falls, Ont.		Sept. 28
Oct. 5.	Training wall, Green Harbor, Mass.		Sept. 28
Oct. 5.	Broken stone, Washington, D. C.		Oct. 5
	Advertised, Engineering News, Oct. 5.		
Oct. 5.	Road, Boston, Mass.		Oct. 5
Oct. 6.	Heating, etc., Newton, Mass.		Oct. 5
Oct. 6.	Jetty work, New Orleans, La.		Oct. 5
Oct. 6.	Railroad grading, Lexington, Ky.		Oct. 5
	Advertised, Engineering News, Sept. 21.		
Oct. 6.	Macadamizing, Wallingford, Conn.		Oct. 5
Oct. 6.	Reservoir, Ballston Spa, N. Y.		Oct. 5
Oct. 6.	Sewers, Chesley, Ont.		Oct. 5
Oct. 6.	School building, Chicago, Ill.		Oct. 5
Oct. 6.	Pipe sewers, Roselle, N. J.		Oct. 5
Oct. 6.	Bridge, Taunton, Mass.		Oct. 5
Oct. 6.	Paving, Omaha, Neb.		Oct. 5
Oct. 6.	Pipe sewers, Canandaigua, N. Y.		Sept. 28
Oct. 6.	Dredging, Boston, Mass.		Sept. 28
	Advertised, Eng. News, Sept. 7 to 28.		Sept. 7
Oct. 6.	Garbage collecting, etc., New York, N. Y.		Sept. 21
Oct. 7.	Store house, Brooklyn, N. Y.		Sept. 7
Oct. 7.	Trunk sewers, Boston, Mass.		Sept. 14
	Advertised, Eng. News, Sept. 14 and 21.		
Oct. 7.	City building, Bridgeport, Conn.		Sept. 14
Oct. 7.	Water bonds, Batavia, O.		Sept. 14
Oct. 7.	School building, Harbor Beach, Mich.		Sept. 28
Oct. 7.	Electric plant, Portsmouth, N. H.		Sept. 28
Oct. 7.	Building materials, Fort Totten, N. Dak.		Sept. 28
Oct. 7.	Hospital building, Ann Arbor, Mich.		Oct. 5
Oct. 7.	Paving, Chicago, Ill.		Oct. 5
Oct. 7.	Macadamizing, San Rafael, Cal.		Oct. 5
Oct. 7.	Portland cement, Washington, D. C.		Oct. 5
	Advertised, Engineering News, Oct. 5.		
Oct. 7.	Paving, Galion, O.		Oct. 5
Oct. 9.	Water pipe, etc., Rapid City, S. Dak.		Oct. 5
Oct. 9.	Buildings, New York, N. Y.		Oct. 5
Oct. 9.	Wall, Fort Brown, Tex.		Oct. 5
Oct. 9.	Wall, Lake St. Francis, Que.		Oct. 5
Oct. 9.	Fire telegraph, St. Louis, Mo.		Oct. 5
Oct. 9.	Bonds, Canton, O.		Oct. 5
Oct. 9.	Street improvements, Allegheny, Pa.		Oct. 5
Oct. 9.	School building, Rochester, N. Y.		Sept. 28
Oct. 9.	Reservoir, Tynemouth, England		Sept. 28
Oct. 9.	Tunnel (480 ft. long), Seattle, Wash.		Sept. 28
Oct. 9.	Paving, New Orleans, La.		Sept. 28
Oct. 9.	Bridge piles, Mineola, N. Y.		Sept. 28
	Advertised, Eng. News, Sept. 28 to Oct. 5.		
Oct. 9.	Water-works, Rockwell, Ia.		Sept. 14
	Advertised, Engineering News, Sept. 14.		
Oct. 9.	Engine house, Dayton, O.		Sept. 14
Oct. 9.	Improvement bonds, Kenton, O.		Sept. 21
Oct. 9.	Electric plant, Rotherham, England.		Sept. 21
Oct. 9.	Electric plant, Odessa, Mo.		Sept. 21
	Advertised, Engineering News, Sept. 21.		
Oct. 9.	Sewers and water-works, Seneca, Mo.		Sept. 21
Oct. 10.	School building, Morris, Minn.		Sept. 21
Oct. 10.	Warehouse, Osage, Okla.		Sept. 21
Oct. 10.	Water pipe, etc., Londonderry, Ireland		Sept. 21
Oct. 10.	Tramway supplies, etc., Glasgow, Scotland		Sept. 21
Oct. 10.	Machinery, Brooklyn, N. Y.		Aug. 31
Oct. 10.	Macadam road, Kennett Square, Pa.		Sept. 28
Oct. 10.	Improvement bonds, Jamestown, N. Y.		Sept. 28
Oct. 10.	Asphalt paving, Chicago, Ill.		Sept. 28
Oct. 10.	Bridge improvements, London, England		Sept. 28
Oct. 10.	Tramway supplies, Birkenhead, England		Oct. 5
Oct. 10.	Steel tower, Wilmington, Del.		Oct. 5
Oct. 10.	Water-works, Genoa, Ill.		Oct. 5
	Advertised, Engineering News, Oct. 5.		
Oct. 10.	Paving, Jersey City, N. J.		Oct. 5
Oct. 11.	Sewers, New York, N. Y.		Oct. 5
Oct. 11.	Dredging, etc., Albany, N. Y.		Oct. 5
	Advertised, Engineering News, Oct. 5.		
Oct. 11.	Sewer pipe, etc., Warminster, England.		Sept. 21
Oct. 12.	Warehouse, Genoa, Neb.		Sept. 21
Oct. 12.	Railway, Pretoria, Transvaal.		Aug. 24
Oct. 12.	Bridges, Shreveport, La.		Oct. 5
Oct. 13.	Bridge, Everett, Wash.		Oct. 5
Oct. 13.	Railway work, West Point, Ga.		Oct. 5
Oct. 13.	Bridges, Indianapolis, Ind.		Oct. 5
Oct. 13.	Police building work, New York, N. Y.		Oct. 5
Oct. 13.	Court house plans, Kalispell, Mont.		Oct. 5
Oct. 13.	Bonds, Vancouver, B. C.		Sept. 28
Oct. 14.	Bridge work, Glendive, Mont.		Sept. 14
	Advertised, Eng. News, Sept. 14 and 21.		
Oct. 14.	Brick sewers, Akron, O.		Sept. 21
Oct. 14.	Repairing bridge, Portland, Ore.		Oct. 5
Oct. 15.	Surveying highway, Manchester, N. H.		Oct. 5
Oct. 15.	Building plants (Y.M.C.A.), Scranton, Pa.		Sept. 14
Oct. 16.	Court house plans, Martinez, Cal.		Sept. 21
Oct. 16.	Army quarters, Fort Schuyler, N. Y.		Sept. 21
Oct. 16.	Concrete bridge Kankakee, Ill.		Sept. 28
	Advertised, Engineering News, Sept. 28.		
Oct. 16.	Boiler house, Cleveland, O.		Sept. 28
Oct. 16.	Water-works, St. Mary's, W. Va.		Oct. 5
	Advertised, Engineering News, Oct. 5.		
Oct. 16.	Street improvements, Elizabeth, N. J.		Oct. 5
Oct. 16.	Ditch, Harvel, Ill.		Oct. 5
Oct. 16.	Pier, Tompkinsville, N. Y.		Oct. 5
	Advertised, Engineering News, Oct. 5.		
Oct. 16.	Building plans, San Francisco, Cal.		Oct. 5
Oct. 16.	Engine house, Bristol, England		Oct. 5
Oct. 16.	Army quarters, Fort Schuyler, N. Y.		Oct. 5
Oct. 16.	Sewers, Elizabeth, N. J.		Oct. 5
Oct. 16.	Repairing streets, Cincinnati, O.		Oct. 5
Oct. 17.	Bridge, Sidney, O.		Oct. 5
Oct. 17.	Asphalt paving, Niles, O.		Oct. 5
Oct. 17.	Asphalt paving, New York, N. Y.		Oct. 5
Oct. 17.	Macadam road, Cleveland, Tenn.		Oct. 5
Oct. 18.	Removing wreck, Galveston, Tex.		Sept. 21
	Advertised, Eng. News, Sept. 21 to Oct. 12.		
Oct. 18.	Brick sewer, Crawfordsville, Ind.		Sept. 21
Oct. 18.	Bonds, New York, N. Y.		Oct. 5
Oct. 18.	Sewerage system, Newnan, Ga.		Oct. 5
	Advertised, Eng. News, Oct. 5 and 12.		
Oct. 18.	Trunk sewer, Birmingham, Ala.		Oct. 5
Oct. 18.	Water pipe, etc., Martin's Ferry, O.		Oct. 5
Oct. 19.	Jetty work, etc. Wilmington, Del.		Sept. 21
	Advertised, Eng. News, Sept. 21 to Oct. 12.		
Oct. 20.	Dredging, Olympia Harbor, Wash.		Sept. 28
Oct. 20.	School building, Wonewoc, Wis.		Oct. 5
Oct. 20.	Bonds, Lake City, Fla.		Oct. 5
Oct. 21.	Water-works, Berea, O.		Oct. 5
	Advertised, Eng. News, Oct. 5 and 12.		
Oct. 21.	Sewage disposal plant, Folsom, Cal.		Oct. 5
Oct. 21.	Sewers, Washington, D. C.		Oct. 5
	Advertised, Engineering News, Oct. 5.		
Oct. 21.	Dry-dock, Philadelphia, Pa.		Sept. 28
Oct. 22.	Power line franchise, Lincoln, Cal.		Oct. 5
Oct. 23.	Power franchise, San Jose, Cal.		Oct. 5
Oct. 23.	Electric bonds, Monroe, Mich.		Oct. 5
Oct. 24.	Asylum building, Canton, S. Dak.		Oct. 5
Oct. 24.	U. S. building, Springfield, Mass.		Oct. 5
Oct. 24.	Dredging, Penobscot River, Me.		Sept. 28
	Advertised, Eng. News, Sept. 28 to Oct. 19.		
Oct. 24.	Breakwater, Sheboygan Harbor, Wis.		Sept. 28
	Advertised, Eng. News, Sept. 28 to Oct. 19.		
Oct. 24.	Sheathing, etc., Bluff Harbor, N. Zealand		Sept. 21
Oct. 24.	Electric railway plant, Barking, England		Sept. 14
Oct. 25.	Road improvements, Lisbon, O.		Sept. 28
Oct. 25.	Dredging, etc., Aransas Pass, Tex.		Sept. 28
	Advertised, Eng. News, Sept. 28 to Oct. 19.		
Oct. 25.	City hall building, Pittsburg, Kan.		Oct. 5
Oct. 26.	Bridge superstructure, Cleveland, O.		Oct. 5
Oct. 26.	Army buildings, Fort Hamilton, N. Y.		Sept. 28
	Advertised, Eng. News, Sept. 28 to Oct. 19.		
Oct. 27.	Dredging, Mystic River, Mass.		Sept. 28
	Advertised, Eng. News, Sept. 28 to Oct. 19.		
Oct. 27.	Bridge, Indianapolis, Ind.		Oct. 5
Oct. 27.	Buildings, West Point, N. Y.		Oct. 5
Oct. 30.	Sewerage system, Wellsville, O.		Oct. 5
Oct. 30.	Beacons, Hawk Channel, Fla.		Oct. 5
	Advertised, Eng. News, Oct. 5 and 12.		

Oct. 30. U. S. building, Dubuque, Ia. .....Oct. 5
Oct. 30. Bonds, Victoria, B. C. .....Sept. 28
Oct. 30. Railway construction, Yucatan, Mex.....Aug. 31
Oct. 30. Railway (70 miles), Cape of Good Hope...Sept. 21
Oct. 31. Heating, etc., Buffalo, N. Y. .....Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Nov. 1. Water-works, Nicolaiev, Russia. .....June 15
Nov. 1. Protected cruisers, Washington, D. C.....July 13
Nov. 1. Library building plans, Fort Worth, Tex..Oct. 5
Nov. 1. Water supply, Dover, N. J. .....Oct. 5
Advertised, Eng. News, Oct. 5 and 12.
Nov. 1. School building, Chester, Pa.....Oct. 5
Nov. 1. Broken stone, Windsor, Ont. .....Oct. 5
Nov. 2. Pumping engine, Martin's Ferry, O.....Oct. 5
Nov. 2. Dredging, St. Johns River, Fla. .....Oct. 5
Advertised, Eng. News, Oct. 5 to 26.
Nov. 3. Garbage crematory, Sidney, N.So. Wales. Aug. 17
Nov. 3. Jetty work, St. Johns River, Fla.....Oct. 5
Advertised, Eng. News, Oct. 5 to 26.
Nov. 3. Dredges, Montgomery, Ala. .....Oct. 5
Advertised, Eng. News, Oct. 5 to 26.
Nov. 3. Electric wiring, West Point, N. Y.....Oct. 5
Advertised, Eng. News, Oct. 5 to 26.
Nov. 6. Electric franchise, Martinez, Cal. .....Oct. 5
Nov. 6. Water supply, Helena, Mont.....Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 12.
Nov. 7. Electric machinery, Riverside, Cal. .....Oct. 5
Nov. 14. Bridge, Alameda, Cal. .....Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 12.
Nov. 27. Court house, Atlanta, Ga.....Oct. 5
Nov. 28. Dredging, Everett Harbor, Wash.....Oct. 5
Advertised, Eng. News, Oct. 5 to Nov. 16.
Nov. 28. Court house, Pipestone, Minn. .....Sept. 21
Nov. 30. Market plans, Nassau, Bahamas.....Sept. 7
Dec. 5. Church building, Warsaw, N. Dak. .....Oct. 5
Dec. 14. Ferry, New Orleans, La. .....Sept. 21
Dec. 19. Quays, etc., Alexandria, Egypt. .....Sept. 14
Jan. 4. Railway (200 miles), Ceylon .....Sept. 7
No date. Brick building, Hedrick, Ia. .....Oct. 5
" . Stone mill building, Sault Ste. Marie, Ont. Sept. 7
Advertised, Eng. News, Sept. 7 and 14.
" . Cyanide mill, Cripple Creek, Colo.....Sept. 21

RAILWAYS.

ALBERT LEA & SOUTHWESTERN.—This company was incorporated in Minnesota Sept. 23 with a capital stock of $100,000, to construct a line from Lyle to Albert Lea, Minn. W. A. Morin and W. E. Todd, of Albert Lea, Minn., and Bissell J. Humphrey, Chicago, are incorporators.

ALTON & EASTERN.—R. L. Dorsey, Vice-President, Alton, Ill., informs us that this company is still in its incipiency, construction not yet having been commenced. The proposed route is from Alton to Vandalia, about 60 miles, over a line not yet definitely located. The preliminary survey will be started in a few days by Mr. Alexander.

BALDWIN & MIFFLIN CONNECTING.—This company was incorporated in Pennsylvania Sept. 28, with $25,000 capital stock, to build a steam railway in Allegheny county, Pa. H. W. Croft, Pres.; S. C. Walker and S. P. Harbison, all of Pittsburg, are incorporators.

BLACK RANGE.—This company has been incorporated in New Mexico, with $2,000,000 capital stock, to construct a 90-mile railway from Magdalena to Chloride, N. Mex. R. E. Mitchell, Las Vegas, N. Mex.; Chas. F. Greyson, Silver City, N. Mex.; and H. W. Kelly, Socorro, N. Mex., are incorporators.

BOSTON & MAINE.—Coleman Bros., Union St., Everett, Mass., inform us that they have been awarded the contract for constructing the extension of this system from Manchester to Milford, N. H., 18½ miles, as reported in our last issue. Frank A. Merrill, Asst. Engr., is in charge of construction, which was to have commenced Oct. 2.

CENTRAL ONTARIO.—John D. Evans, Ch. Engr., Trenton, Ont., informs us that 21 miles have been located, the right of way obtained and the capital secured for an extension of this line through Bancroft, Ont. Robert Weddell, Trenton, Ont., is the sole contractor for the 21 miles, and work is now under way at numerous points along the first 16 miles. About six miles of grading had been completed by Sept. 30, and one mile of track laid. Stevenson Burke, Pres., Cleveland, O.

CHATTAHOOCHEE VALLEY.—A.C. Smith, West Point, Ga., informs us that the surveys are about completed and the capital stock secured for the proposed 10-mile extension of this line through Lanett, Langdale and Riverdale, Ala. Contracts will probably be let on or before Oct. 15. L. Lanier, Pres., West Point.

CHICAGO & NORTHWESTERN.—Grading is nearly completed on the Soldier Valley extension of this system, from Boyer to Mondamin, via Ute, Ia., 62 miles, and 20 miles of track has been laid. The Boyer Valley extension from Wall Lake to Dennison, Ia., 26 miles, has been completed for several months. D. C. Dunlap, Engr. of Location and Construction, Wall Lake, Ia.

CHICAGO, MILWAUKEE & ST. PAUL.—Reports state that work is in progress on the extensions of this line from Fonda to Spencer, Ia., 43 miles; and from Rockwell City to Storm Lake, Ia., 36 miles. On the former extension grading has been completed for 15 miles, and track-laying has commenced. It is expected to open both lines for traffic before Dec. 1. D. J. Whittemore, Ch. Engr., Chicago.

CHICAGO, ROCK ISLAND & PACIFIC.—Work has been completed on the elevation of this company's tracks in Chicago, Ill., between 16th and 76th Sts., 6½ miles.

DAKOTA-PACIFIC.—Reports state that active work is about to be commenced on the construction of this proposed line from Rapid City to Mystic, S. Dak. It will be about 40 miles in length at first, and will connect the Elkhorn and the Burlington lines. About two-thirds of the roadbed was graded by the old company, and about eight miles of track laid. Wm. T. Coad, Pres., Rapid City, S. Dak.

EASTERN OKLAHOMA.—Reports state that contracts for the construction of 24 miles of this railway, beginning at Guthrie, Okla., and following a route that is to run south of the Cimarron River, have been let at Topeka, Kan., as follows: For the first 8 miles to A. Moore, Newton, Kan.; the second 8 miles to the Shutt Improvement Co., Pueblo, Colo.; the next 4 miles to Sparr & Stubbs, Lawrence, Kan., and the next 4 miles to Ware & Maney, Topeka. By contract the line is to be in operation as far east as Perkins by Jan. 1. It is thought that the line from Pawnee to Bliss will also be completed by that time.

ITALY.—Press reports state that the department of public works has allotted to the bureau of railways 45,000,000 lire ($9,000,000) for the purchase of new locomotives, carriages and goods cars for the principal state railways.

MEMPHIS & CHATTANOOGA.—This company has applied for a charter in Tennessee, with $2,500,000 capital stock, to build a 45-mile extension of the Southern Ry., from Chattanooga, Tenn., to Stephenson, Ala. Col. W. A. Henderson, Washington, D. C.; F. P. Poston, Memphis, Tenn., and G. W. Ochs, Chattanooga, are interested.

MOUNT PLEASANT & SOUTHERN.—This company is reported to have been incorporated, with $40,000 capital stock, to construct a line connecting Ridley and Attilla, Tenn., on the Nashville, Florence & Sheffield branch of the Louisville & Nashville Ry. E. L. Gregory and Herman Ruhm are said to be incorporators.

PENNSYLVANIA, WEST OF PITTSBURG.—E. H. France, Bloomville, O., informs us that he is changing the line and reducing the grade on about 8½ miles of this system in Ohio. Work is well under way, and a steam shovel and scraper are being used. Thomas Rodd, Ch. Engr., Pittsburg, Pa.

QUINCY & EASTERN.—This company has been incorporated in Illinois, with a capital stock of $2,000,000, to build a railway from Quincy to Havana and Beardstown, Ill. Lewis B. Tebbets, St. Louis, Mo.; Tere A. Clark, Quincy, Ill., and D. V. Youngblood, Carbondale, Ill., are incorporators.

RICHMOND, PETERSBURG & CAROLINA.—Grading is reported to be about completed on this new line between Petersburg, Va., and Ridgeway, N. C., and it is expected to begin grading soon between Richmond and Petersburg. About 35 miles of track has been laid from Ridgeway north to the Meherrin River, and a steel bridge across the Roakoke River will be completed about Oct. 15; another steel bridge, about 500 ft. in length, will also be erected soon over the Appomattox River, to cost about $30,000. R. B. Seymour, Ch. Engr., Chamber of Commerce, Richmond, Va.

ULSTER & DELAWARE.—The work of laying rails on the extension of this line from Bloomville to Oneonta, N. Y., began last week. The rails used are the old ones taken up between Phoenecia and Kingston, which are being replaced by new 90-lb. rails. About 120 Italians are now at work on the grading, which is completed a short distance beyond East Meredith, nine miles from Bloomville.

UNION PACIFIC.—Deal Bros. & Mendenhall, Springville, Utah, are reported to have been awarded the contract for grading a 2-mile spur from the Union Pacific depot yards at Park City to the mouth of the old Ontario drain tunnel, just below the Ontario mill. Surveys have been completed. It is expected to have the new branch in full operation by Nov. 1.

WELLSBURG & WHEELING.—This company has been incorporated in West Virginia, with a capital stock of $30,000, to construct a railway from Lazearville station, on the Pittsburg, Wheeling & Kentucky Ry., to Wheeling, W. Va. J. A. Miller, Wheeling; C. A. Weaver, Moundsville, W. Va.; and E. M. Atkinson, Elm Grove, W. Va., are incorporators.

STREET AND ELECTRIC RAILWAYS.

YORK, ME.—The York Branch of the Boston & Maine R. R. is to be made over from a steam to electric line for a distance of 12 miles. Poles are being distributed.

EXETER, N. H.—It is reported that the Exeter, Hampton & Amesbury St. Ry. Co. has arranged for the extension, next spring, of its Amesbury line to Haverhill, Mass. Tracks are already laid to the North Hampton line, and connection with this line next year is assured, and also with the Portsmouth & Dover road. A. E. McReel, Mgr.

NORTHAMPTON, MASS.—Reports state that temporary organization has been effected for the construction of an eectric railway from this city to Holyoke, via East Hampton. Ex-Mayor O'Donnell, of Northampton, is president of the temporary organization; Robert L. Warner, Brookline, Mass., is treasurer, and Seward Pearson, Philadelphia, manager of construction. It is estimated that it will cost $200,000 to build the line.

BALLSTON SPA, N. Y.—The trustees of this village have granted a franchise to Charles Brawn, W. G. Caw, Herman V. Myndase and others, to construct an electric railway at this place.

BUFFALO, N. Y.—The Buffalo & Erie Electric R. R. Co. was incorporated Sept. 27 with a capital stock of $1,000,000, to construct a street railway from Buffalo to Erie, Pa., about 70 miles. C. V. Boughton, A. Schmidt, Jr., and W. A. Calhoun, of Buffalo, and W. W. Cole, Elmira, N. Y., are incorporators.

DUNKIRK, N. Y.—The Dunkirk & Hickoryhurst Electric R. R. Co. was incorporated Sept. 27, with $50,000 capital stock, to build from Dunkirk to Point Gratiot, about seven miles. C. V. Boughton and A. Schmidt, Jr., Buffalo, and Daniel F. Toomey, Dunkirk, incorporators.

FREDONIA, N. Y.—The Fredonia & Lilydale Electric R. R. Co. was incorporated Sept. 27 with a capital stock of $150,000, to build from Fredonia to and through the assembly grounds at Lilydale, about seven miles. C. V. Boughton and A. Schmidt, Jr., of Buffalo, and W. W. Cole, Elmira, N. Y., are incorporators.

MINEOLA (L. I.), N. Y.—Reports state that the state railroad commissioners have granted the application of the Nassau Belt Line Traction Co. for a franchise to construct an electric railway from Mineola to East Rockaway, via Garden City, Hempstead, Greenwich Point and Freeport. The company has already secured the right of way for the entire distance, and engineers are placing the grade stakes. Paul K. Ames, Pres., Longbeach, N. Y.; Henry S. Nichols, Hempstead, and Wm. G. Miller, Freeport, N. Y., are interested.

MOUNT PLEASANT, PA.—Brown & Coates, Rochester, Pa., are reported to have been awarded the contract, Sept. 27, for constructing the Mount Pleasant, Scottdale & Connellsville Electric Ry. Work has been commenced.

PORT CARBON, PA.—The Schuylkill Valley St. Ry. Co. was incorporated Sept. 28 with a capital stock of $120,000, to build an electric street railway from this city to Tamaqua, Schuylkill county. Wm. M. Brewer, Pres.; M. D. Malone, of Shenandoah, Pa., and Jas. B. Reilly, Pottsville, Pa., are incorporators.

BALTIMORE, MD.—John Waters, 23 East Centre St., Baltimore, has been awarded the contract for erecting four buildings of the new plant of the United Railways & Electric Co. in southwest Baltimore, to cost about $539,000, excluding equipment. The buildings include a car barn, 370 × 368 ft.; a paint shop, 240 × 310 ft.; an erecting shop, 270 × 260 ft., and a storage house, 175 × 180 ft.; they will be one-story high and fireproof. E. M. Noel was the next lowest bidder. Baldwin & Pennington, Archs., 44 South St. Nelson Perin, Pres.

WASHINGTON, D. C.—Reports state that the Washington, Sandy Springs & Gettysburg Ry. has been incorporated at Rockville, Md., by George H. Harries, E. L. Parker and others, to construct a trolley line from Sligo village, at the terminal of the Brightwood Ry., to Four Corners, Burnt Mills, Sandy Springs and Gettysburg.——Contractor White is said to be rushing the work of laying rails on the Georgetown & Tenleytown Ry., from the district line south.

DANVILLE, VA.—The council having passed an ordinance granting a new franchise to the Danville Street Car Co., Richmond, Va., closed an option, Sept. 25, by which it became the purchaser, and will expend $250,000 in equipping the line, extending it to the north side of the river and on other streets on the south side.

HAMPTON, VA.—It is reported that the principal bidders Sept. 26 for erecting the new power house near Hampton for the Newport News & Old Point Ry. & Electric Ry. Co. were Edward D. Preston and J. J. Walsh & Son, Baltimore, Md.; Degnon & McLane Construction Co., New York; Holtzclaw Bros., Hampton, and George J. Ware, Newport News, Va. The bids averaged about $125,000. The building will be a one-story brick structure, 100 × 172 ft. No award was made.

PETERSBURG, VA.—George R. James, Petersburg, Va., has been awarded the contract for erecting the new car barn of the Southside Ry. & Development Co., to cost $23,448. Henry Brauns, Arch., Baltimore, Md.; R. Lancaster Williams, Pres., Petersburg.

BIRMINGHAM, ALA.—Paul Green has applied to the council for a franchise to build a new street car line in this city.

WARTRACE, TENN.—It is reported that surveys have been completed for the proposed electric railway from Wartrace to Lynchburg, and that contracts will soon be let. Senators Case and Evans, of Illinois, are said to be interested.

COVINGTON, KY.—The Cincinnati, Covington & Erlanger Ry. Co. has been incorporated in Kentucky with a capital stock of $250,000, to construct a 10-mile electric line. J. C. Ernst and Henry Feltman, of Covington, and C. P. Garvey, Cleveland, O., are incorporators.

BARBERTON, O.—A. E. Townsend, Cambridge, O., informs us that he is interested in the construction of 30 miles of electric railway near this city. Franchises have been obtained and surveys made for the first five miles from Barberton through Johnson, Hometown and Doylestown. A company will not be incorporated until all of the franchises have been secured.

COLUMBUS, O.—It is announced that the Columbus St. Ry., the Columbus Central Ry. and the Cross Town line were consolidated under one management Oct. 2, with Robert E. Sheldon as president, and P. V. Burrington, secretary.

SALEM, O.—W. H. Harris, in behalf of the Alliance, Sebring & Salem Electric Ry. Co., has filed with the council of Salem an application for a franchise to run a street railway on Main St., between the west city line and Lincoln Ave. M. L. Davis, Lisbon, O., and Morris French, Salem, are said to have begun surveys for this proposed line.

YOUNGSTOWN, O.—Press reports state that the Youngstown Park & Falls St. Ry. Co. is contemplating the extension of its line to North Lima. The road will run through valuable coal properties, and the handling of freight will be the important factor in the company's business.

FORT WAYNE, IND.—The Fort Wayne Consolidated Ry. and Robison Park are reported to have been sold at a receiver's sale, Sept. 28, for $1,092,000, to Gen. George A. Garretson, a bond holder.

INDIANAPOLIS, IND.—The Indianapolis St. Ry. Co. has closed contracts with the North American Railway Construction Co. for the reconstruction of the English Ave., Indiana Ave., West Indianapolis, Stock yards, East Washington St. and Brightwood lines, and for the building of the line to Riverside Park. The work is to be completed by Jan. 1 with the exception of the Riverside line, which is expected to be completed by June 1, 1900. The company now has under contract nearly $1,000,000 worth of improvements, including the reconstruction of about 40 miles of tracks.

MONROE, MICH.—The council has granted a 30-year franchise to Clarence A. Black, C. W. Harrah, and others, of Detroit, Mich., to build in this town. Work must be commenced by Nov. 15.

COLLINSVILLE, ILL. The Collinsville & Troy R. R. Co. has been incorporated with $2,500 capital stock, to build an electric railway to Troy. D. M. Browning, East St. Louis, Ill., and E. C. Donk, St. Louis, Mo., are incorporators.

EAST ST. LOUIS, ILL.—The St. Louis, Troy & Eastern R. R. Co. has filed articles of incorporation at Edwardsville, Ill. The company is capitalized at $300,000, and proposes to build from East St. Louis to Collinsville. D. M. Browning, East St. Louis; W. M. Warnock, Edwardsville, and W. G. Burroughs, Collinsville, Ill., are incorporators.

SPRINGFIELD, ILL.—The council has granted the Consolidated St. Ry. Co. a franchise to extend its lines in the First Ward. The franchise provides that the lines shall be constructed within nine months from the date of the acceptance of the ordinance. C. K. Minary, Mgr.

OMAHA, NEB.—The Omaha, Council Bluffs & Suburban Ry. Co. was incorporated Sept. 28, with a capital stock of $1,000,000, to construct a street railway in Council Bluffs, Ia., and suburban districts. W. S. Reed and George Townsend, of St. Louis, Mo., and C. R. Hannan, Omaha, are incorporators.

DALLAS, TEX.—The Black Belt Electric Ry. Co., 265 Washington Ave., informs us that it wishes to correspond with capitalists and contractors who will take an interest in a projected electric railway to run from Dallas to Fort Worth, Tex., via Oak Cliff and Arlington, 40 miles. The rights of way are being secured, and the line has been located for 10 miles. Bonds to the amount of $10,000 a mile have been issued and certified to by a trust company, and better bids, either in cash or material, are wanted for the first $180,000 of bonds. It is also proposed to continue construction work until the 40 miles of line are completed, as soon as the remaining bonds can be placed. John H. Carter, Pres.; 52 Broadway, New York; J. M. Carter, Ch. Engr., Dallas, Tex.

PUEBLO, COLO.—Contractor Van Buskirk, Canon City, Colo., is reported to have been awarded the contract for erecting a new car barn, 52 × 140 ft., for the Pueblo Electric St. Ry., to cost about $6,000. J. F. Vail, Gen. Mgr.

ST. HYACINTHE, QUE.—Reports state that application will be made to the legislature of Quebec at its next session for the incorporation of the St. Hyacinthe Electric Ry. Co., with power to build and maintain bridges across the river Yamaska, and other rivers with telephone and telegraph lines and other rights.

BIRKENHEAD, ENGLAND.—Bids are asked until Oct. 10 for the supply and delivery of steel rails, fishplates, soleplates, tie bars and bolts for the corporation tramways. Alfred Gill, Town Clk.; Charles Brownridge, Borough Engr., Town Hall.

ELECTRIC LIGHT AND POWER.

CONTOOCOOK, N. H.—The Contoocook Electric Light Co., it is stated, will increase its capital stock from $20,000 to $30,000 to extend its pole line to Warner, etc.

NAPATREE POINT, R. I.—Maj. Smith S. Leach, U. S. Engr., New London, Conn., received the following bids Sept. 27 for furnishing and installing a plant at Napatree Point, R. I., as advertised in Engineering News: Burhorn & Granger, New York, $2,000, delivery 60 days after date; General Electric Co., Schenectady, N. Y., $1,495, Dec. 31; Walworth Construction & Supply Co.,

Boston, Mass., $1,497, Nov. 18; McCay Engineering Co., Baltimore, Md., $1,784, Nov. 4; B. O. Ellis, New York, $1,451, Oct. 30; New Jersey Foundry & Machine Co., New York, $1,632, 10 weeks from date of order.

DANIELSON, CONN.—The reorganized People's Light & Power Co., it is stated, will begin at once the construction of a number of improvements to its plant. H. S. Pratt, Pres.; A. G. Bill, Secy.

GLOVERSVILLE, N. Y.—Reports state that the Gloversville Electric Co. will improve its plant.

OSWEGO, N. Y.—Local papers state that the People's Electric Light Co. has made a contract with the Oswego Traction Co. to furnish the latter company with power for 20 years. S. M. Coon, Pres. Oswego Traction Co.

WEST POINT, N. Y.—Bids are asked until Nov. 3 for wiring Memorial Hall, as stated in our advertising columns. Address Q. M., U. S. A.

WESTFIELD, N. J.—The advisory board has recommended the further investigation of the question of the municipal ownership of the plant and water-works.

PHILADELPHIA, PA.—Chas. McCaul has been awarded the contract for building the power house at the new morocco works of the J. P. Mathiew & Co., 10th and Westmoreland Sts. Hale & Ballinger, Archs.

WILLIAMSPORT, PA.—The property of the Edison Electric Illuminating Co. has been sold to a Philadelphia syndicate for about $120,000.

GASTONIA, N. C.—Plans for a plant, a sewerage system and water-works, have been completed by J. L. Ludlow, Winston, N. C.

AIKEN, S. C.—Ex-Gov. John G. Evans, it is reported, is interested in the proposed improvements to the plant of the Carolina Light & Power Co., recently purchased.

GAFFNEY, S. C.—W. H. Ross, Cy. Clk., writes us that the contract for the electric plant has not yet been let. That for the water-works has been let. Population, 6,000.

ST. AUGUSTINE, FLA.—Reports state that in the matter of the issue by this city of $20,000 electric light bonds, the Circuit Court has decided that the suit of the taxpayers, instituted to enjoin a sale of the bonds, should be dismissed. An appeal has been taken to the Supreme Court, and the motion for an injunction will be renewed there, so that it is likely to be some time before the validity of the bonds will be determined.

JOHNSON CITY, TENN.—It is stated that the Watauga Lighting & Power and the Johnson City & Carnegie St. Ry. Co. have let contracts, at about $25,000, for certain improvements to the plant.

COLLINWOOD, O.—This place voted Sept. 25 to issue $18,000 in bonds for a plant.

LOWELLVILLE, O.—The question of issuing $8,000 in bonds for a plant will again be voted upon at the November election.

ANDERSON, IND.—The Union Traction Co. has made public the plans for the plant, to cost about $400,000. The company will supply the power for electric lines in this city, to Marion, Muncie, Elwood, Alexandria and Indianapolis. It will also supply electricity for power and heat in the cities touched, excepting only Indianapolis. Chas. L. Henry, Mgr.

NEW ALBANY, IND.—The council has contracted with the Wayne Construction Co. of Wort Wayne, Ind., for an electric light plant at $40,000. The plant is to be completed Feb. 1, and after a term of years will become the property of the city.

ALBION, MICH.—An election will soon be held to vote on the question of issuing $15,000 in bonds for a plant. Address Mayor Loud and City Engineer Whitney.

MONROE, MICH.—Bids are asked until Oct. 23 for the purchase of $20,000 of 4% electric plant bonds. John Steiner, Cy. Clk.

ST. LOUIS, MICH.—This place voted Sept. 25 to issue $10,000 in bonds for a plant.

SAGINAW, MICH.—The Bartlett Illuminating Co. has purchased the plant of the Saginaw Electric Light & Power Co., and will spend about $35,000 in improvements, according to reports. Gen. Mgr., John Herman; C. W. Ricker, Consult. Engr., 184 Cleveland Ave., Buffalo, N. Y.

SYCAMORE, ILL.—Cassius M. Conrad has been appointed receiver of the Sycamore Electric Light Co., on the petition of W. V. Henrie, one of the stockholders, according to reports.

VIRDEN, ILL.—It is reported that an election was held Oct. 3 to vote on the question of issuing $10,000 in bonds for a plant.

APPLE RIVER, WIS.—The St. Paul Gas Company, it is reported, has begun work on the proposed power plant on Apple River, to cost about $800,000. The item under Stillwater in our last issue probably referred to this plant.

NEW RICHMOND, WIS.—At a meeting of the council it was decided to purchase the plant from the New Richmond Electric Light Co. for $10,000, the city to have five years to pay for the same.

OCONTO, WIS.—The Holt Lumber Co. has been awarded the contract for furnishing arc lights, at $2,800 a year.

MINNEAPOLIS, MINN.—The Electric Storage Battery Co., Philadelphia, has been awarded the contract at $8,600, for an electric plant for the county court house.

KANSAS CITY, KAN.—A company is reported as being formed to build a plant in this city. A report also states that Blair & Co., bankers, 33 Wall St., New York, have asked for a franchise for a plant to cost $100,000.

FLANDREAU, S. DAK.—The following bids were recently received by W. A. Jones, Comr. Indian Affairs, Washington, D. C., for a plant at the Indian school: Westinghouse Electric & Mfg. Co., Pittsburg, Pa., $2,500; Ft. Wayne Electric Works, Fort Wayne, Ind., $2,585, $2,958; Edward Heaton, Park Row Bldg., New York, $5,995, $5,478; Northern Electrical Mfg. Co., Madison, Wis., $3,062, $2,795, $2,912.

CUERO, TEX.—The council is reported as considering the question of a municipal plant. The plant will have 10 miles of line, 1,500 lights, etc. Address V. J. Grunder, of the committee.

BAKER CITY, ORE.—The city auditor has been authorized to ask for bids for public lighting for a term of five years, according to reports.

LINCOLN, CAL.—Bids are asked until Oct. 27 for the purchase of a franchise for a pole line, etc., the Yuba Electric Power Co., having applied for one. R. G. Allen, Town Clk.

MARTINEZ, CAL.—Bids are asked until Nov. 6 for the purchase of a franchise for lighting the towns of Crockett, Valona and Port Costa. J. D. Wightman, Chn. Bd. County Supervisors.

LIVERMORE, CAL.—The Livermore Water & Power Co. has asked for a franchise for the erection of a plant to carry power from Livermore to Pleasanton. The company has made plans for a large plant, it being purposed to supply light to Livermore, Pleasanton and the surrounding country. Walter C. Beatie, Pres.; W. Dingee is interested.

RIVERSIDE, CAL.—Bids are asked until Nov. 7 for machinery for a plant of 550 lights for the Southern California Hospital. J. McGonigle, Chn. Bd. Managers.

SAN JOSE, CAL.—Bids are asked until Oct. 23 for the purchase of a franchise for a pole line for a power plant. Henry A. Ffister, County Clk.

LEHI, UTAH.—W. E. Rocker, Pres., writes us that the company wants bids at once for the proposed plant at the American Fork Canyon, to cost about $30,000.

SALT LAKE CITY, UTAH.—Reports state that John R. Foulkes, Salt Lake City, has purchased the $200,000 worth of bonds of the American Falls Canal & Power Co. for the proposed power plant. The canal, it is stated, will be about 60 miles long. L. W. Shurtliff, Pres.; Lyman Skeen, Vice-Pres. and Gen. Mgr., both of Ogden.

WINNIPEG, MAN.—The city, it is reported, has authority to sell $275,000 worth of bonds for a city plant.

SAO PAULO, BRAZIL.—Reports state that the Riter-Conley Mfg. Co., Pittsburg, has been awarded the contract for the steel construction work for the power house building about to be constructed by the Sao Paulo Electric Light & Power Co. It is stated that the company is asking for bids for 500,000 ft. of terra cotta duct in which to lay wires, and it is still in the market for 5,000 wooden trolley poles. Further information regarding contracts already let has been published in our issues of Sept. 21 and 28. F. S. Pearson, Consult. Engr., 621 Broadway, New York.

BUENOS AYRES, ARGENTINE REPUBLIC.—Reports state that the city officials have ordered the construction of a lighting plant.

NEW COMPANIES.—Citizens' Electric Light & Power Co., Sandusky, O.; $100,000; Henry A. Everett, Pres. Consolidated St. Ry. Co., Cleveland, O.; John Sherwin, Treas. Park National Bank, Cleveland; Thos. Wood, Sandusky.

Rio Plata Electric Co., San Juan, Porto Rico; $100,000; Spencer Cosby, Philip T. Penrose, Philadelphia, Pa.; Ramon Valdes Bayamon, of Porto Rico.

Lackawanna Township Electric Light, Heat & Power Co., Minooka, Pa.; $6,000; M. H. McDonough, Minooka; J. J. Walsh, Scranton, Pa.

Martel Power Co., San Francisco, Cal.; $100,000; A. F. Martel, E. F. Sangar, E. Martel, Alfred L. Black.

Michigan Incandescent Lighting Co., Alma, Mich.; $5,000; to manufacture lamps, etc.; J. W. Holmes, G. W. Pringle, L. H. Hoyt, of Alma.

Carters Power & Water Co., Sonora, Cal.; $300,000; Geo. Beaudet, M. E. Sanford, N. F. Pickle, Sonora.

BRIDGES.

ROCKLAND, ME.—Leon O. Norwood, Cy. Engr., writes us that the contract for the superstructure of the new steel bridge across the Lime Rock quarries and Pleasant St., has been let to the Berlin Iron Bridge Co., East Berlin, Conn. The Cobb Lime Co. will build the foundation.

TAUNTON, MASS.—Bids are asked until Oct. 6 for constructing a bridge and abutments on Scaddings St. Nathaniel J. W. Fish, Mayor.

DELPHI, N. Y.—Local papers state that a new bridge will soon be erected to replace the present structure on the cross-road that was condemned by the town board on Sept. 26.

EAGLE BRIDGE, N. Y.—The following bids were received by Supervisor Heaton, Hoosick Falls, for constructing a bridge across the Hoosick River at this place: Groton Bridge & Mfg. Co., Groton, N. Y., $10,800; Owego Bridge Co., $11,000; Canton Bridge Co., Canton, O., $12,000; Massillon Bridge Co., Massillon, O., $10,800; Berlin Iron Bridge Co., East Berlin, Conn., $11,700.

MOUNT VERNON, N. Y.—Alderman Hayward on Sept. 27 offered to the council a resolution to give a public hearing on the question of building a viaduct over the New York & Harlem Ry. tracks at Mount Vernon Ave., a division of the New York Central & Hudson River R. R., which was accepted.

OSWEGO, N. Y.—W. K. McFarlin, Ch. Engr. Delaware, Lackawanna & Western R. R., and others, have made inspections of the trestle at the foot of West 4th St. Mr. McFarlin is quoted as stating that the company proposes to expend $25,000 in the repair of this structure.

NORRISTOWN, PA.—Press reports state that the residents of Colebrookdale township have decided to construct the approaches to the proposed county bridge to be built across Gulden's Woods, on the road leading from Gilbertsville to Bechtelsville. The county will erect the bridge.

PHILADELPHIA, PA.—Local papers state that the proposed new bridge over Lansdowne Glen, near Horticultural Hall, is a much-needed improvement, and that some action should be taken by the councils to provide for an appropriation to permit the work.

SUNBURY, PA.—The contract for constructing an iron bridge across the Susquehanna at this place has been let to the Groton Bridge & Mfg. Co., Groton, N. Y., at $140,000, according to reports.

MAYFIELD, KY.—Hasie & Young, Nashville, have received a contract for constructing an iron bridge to span the Obion River at Cromwell to cost about $3,000, according to reports.

SHREVEPORT, LA.—Bids are asked until Oct. 12 for constructing a 188-ft. bridge across a branch of the Bayou Pierre, and one over the Bayou Pierre, about 144 ft. long; a 48-ft. bridge on Prairie River, on the road from Red River to Gravel Point, according to reports. P. P. Keith, Acting Pres. Police Jury.

CLEVELAND, O.—Bids are asked by the director of public works until Oct. 26 for rebuilding the substructure of Willson Ave. bridge. James T. Pardee, Bridge Engr., 311 City Hall.

SIDNEY, O.—Bids are asked until Oct. 17 for constructing an iron bridge over Loramie Creek, in Van Buren, according to reports. J. S. Laughlin, County Audr.

TOLEDO, O.—Local papers state that the Lake Shore & Michigan Southern Ry. will construct a four-track structure at Maumee, to cost about $50,000. The work will be started during the spring.

INDIANAPOLIS, IND.—The board of works on Sept. 27 received the following bids for constructing bridges: Meridian St. (Melan construction)—H. A. Mansfield, $59,500; Hoosier Construction Co., total less $1,000 if awarded both, $61,990; Shover & Austin, $62,450; W. W. Winslow, $64,539; M. M. Defrees, $73,053; steel for construction, $65,000; special construction, total Meridian and Illinois Sts., $111,000, $59,676; gravel concrete (special construction), $57,000; total Meridian and Illinois Sts. $106,700. Stone Construction—H. A. Mansfield, $78,000; Koss & Fritz, $81,740. Illinois St. (Melan construction)—Hoosier Construction Co., total less $1,000 if awarded both, $53,995; H. A. Mansfield, $57,500; M. M. Defrees, $65,068; total Meridian St. and Illinois St., $135,375; steel for construction (total Meridian and Illinois Sts., $120,000; special construction, $54,070; total Meridian St. and Illinois St., $111,000; gravel concrete (special construction), $53,835; total Meridian and Illinois Sts., $106,700. Stone—Koss & Fritz, $70,314; H. A. Mansfield, $71,000; Wrought Iron Bridge Co., $80,937; Koss & Fritz, (total Meridian and Illinois Sts.), $150,000. Illinois St. (steel bridge)—Lafayette Bridge Co., $21,600; Massillon Bridge Co., $21,999; Toledo Bridge Co., $22,025; Indianapolis Bridge & Iron Works, $22,[illegible]; Wabash Bridge & Iron Works, $22,790; New Columbus Bridge Co., $22,920; Mount Vernon Bridge Works, $23,100; Haugh-Nolke Iron Works, $25,105; Wisconsin Bridge & Iron Co., $29,195. Two bids were received for constructing abutments for the Illinois St. bridge—William Fife's bid was $9,795, and W. W. Winslow sent in a bid of $10,000.

INDIANAPOLIS, IND.—Bids are asked by the board of commissioners until Oct. 13 for constructing the superstructure or substructure to 18 bridges in this county, and until Oct. 27 for constructing a bridge over Fall Creek.

GRAND RAPIDS, MICH.—Geo. M. Ames, Cy. Engr., writes us that the proposed bridge work will probably be commenced in the spring.

JOLIET, ILL.—The contract for building a bridge to carry the towpath of the Illinois & Michigan Canal over the new channel at Joliet, was awarded by the drainage board on Sept. 25, to the Joliet Bridge & Iron Works, at $20,960.

BOSCOBEL, WIS.—At an election recently held in Wallerstown, it was voted against bonding the township to erect a bridge, according to reports.

MINNEAPOLIS, MINN.—City Engineer Sullette has submitted a statement to the council with estimates for proposed improvements for 1900, in which he recommends an expenditure of $70,000 for the improvements of bridges.

KANSAS CITY, MO.—The city has begun proceedings in the circuit court to compel the Belt Line R. R. Co. to build a bridge over Kansas Ave.

DENVER, COLO.—The city clerk writes us that the proposed new viaduct on 19th St. is awaiting the action of the board of public works, which is in charge of all public improvements.

EVERETT, WASH.—Bids are asked until Oct. 13 for constructing a Howe truss bridge across Koch Slough, according to reports. T. E. Headler, Clk. Bd. Comrs.

SOUTH BEND, WASH.—The contract for a steel bridge across the Willapa River, near Menlo, was awarded by the county commissioners on Sept. 21, to Ferguson & Houston, Astoria, at $3,873.

PORTLAND, ORE.—Bids are asked by the county commissioners until Oct. 14 for repairing the bridge over the Willamette River at Madison St.

MADERA, CAL.—The supervisors have let a contract for repairing the bridge over Ash Slough to J. W. Watkins, at $1,493, and one for constructing a new bridge over the Fresno River at Fresno Crossing to the San Francisco Bridge Co., at $2,863.

SAN FRANCISCO, CAL.—John A. Russell, Clk., writes us that the proposed construction of the bridge on San Jose Ave., over the tracks of the Southern Pacific Co., has been abandoned.

SAN JOSE, CAL.—We are informed that the contract for constructing a concrete bridge over the San Antonio Creek on the San Francisco road, has been let by the supervisors to John Doyle, at $1,777, also a contract for building a bridge over Natadero Creek, on the San Francisco road, at $1,067.

STOCKTON, CAL.—The council has awarded to D. Tumelty & Son the contract for constructing the Hunt bridge at $3,727.

BUILDINGS.

ROCHESTER, N. H.—The council has appropriated $20,000 for the purchase of a lot and the erection thereon of an 8-room school building.

NEWTON, MASS.—Bids are asked until Oct. 6 for the installation of the heating and ventilating plant in the new Bigelow school building. George H. Elder, Pub. Bldg. Comr., West Newton, Mass.; S. H. Woodbridge Co., Archs., 4 Postoffice Square, Boston.

SPRINGFIELD, MASS.—Bids are asked by the supervising architect, Washington, D. C., until Oct. 24 for the construction (except heating apparatus) of the extension of and alterations in the post office building in this city.

BRIDGEPORT, CONN.—Bids are asked until Oct. 7, according to reports, for erecting a 3½-story brick building for the department of police and charities, to cost about $60,000. Mayor Hugh Sterling, Chn. Bldg. Com.

BROOKLYN, N. Y.—The plans of Henry M. Congdon, 18 Broadway, New York, are reported to have been finally accepted for the new church building to be erected at Brooklyn Ave. and Eastern Parkway for St. Mark's Protestant Episcopal Church, South 5th St. and Bedford Ave.

FORT SCHUYLER, N. Y.—Bids are asked until Oct. 16 for constructing one brick double set of non-commissioned officers' quarters at Fort Schuyler, New York city. Lieut. H. D. Todd, Jr., Q. M.

NEW YORK, N. Y.—Bids are asked until Oct. 9 for constructing and plumbing two buildings on Bedloe's Island, N. Y. Harbor. J. W. Summerhayes, Q. M., U. S. Army, Governor's Island, New York city.——Plans have been filed by Weil & Mayer, 36 East 75th St., for four 6-story brick flat buildings, at 313 to 321 East 12th St., to cost $100,000. Schneider & Herter, Archs., Bible House; by John E. Doyle, 837 Southern Boulevard, for three 5-story brick flat, hotel and store buildings, on Mott Ave., near 144th St., to cost $125,000. C. A. Milner, Arch., 81 East 125th St.; by Simon H. Stern, 46 East 78th St., for a 4-story brick dwelling, at 986 5th Ave., to cost $60,000. A. J. Manning, Arch.; by Dietz & Janpole, 206 Broadway, for seven 5-story brick flat buildings, on 112th St., near 5th Ave., to cost $210,000. G. F. Pelham, Arch., 503 5th Ave.; by Salvador La Grassa, 74 East 137th St., for two 6-story brick flat buildings on 97th St., near 1st Ave., to cost $90,000. Neville & Bagge, Archs., 217 West 125th St.; by Emil Meyer, for two 4-story brick flat buildings on Wendover Ave., near Webster Ave., to cost $60,000. Neville & Bagge, Archs.; by A. Silverson, 236 East 61st St., for two 6-story brick flat buildings at 243 to 247 East 13th St. to cost, $76,000. Schneider & Herter, Archs.; by T. M. Bernstein, 54 Maiden Lane, for three 5-story brick flat buildings, on 99th St., near Park Ave., to cost $72,000. Schneider & Herter, Archs.

NEW YORK, N. Y.—Bids are asked by the police department, 300 Mulberry St., until Oct. 13, for alterations, general repairs and improvements to the station house of the 21st Precinct, 160 East 35th St.——Plans have been filed by Ed. R. Poerschke, 55 St. Mark's Place, for two 6-story brick flat and store buildings at 120 Elizabeth St., to cost $48,000. Charles Rentz, Arch.

WEST POINT, N. Y.—Bids are asked by the quartermaster, U. S. M. A., until Oct. 27 for the extension of the cavalry stable, and for the construction of an addition to the cadet hospital at the West Point Military Academy.

TRENTON, N. J.—The commissioners of public instruction awarded the contract Sept. 29 for the construction of the new high school building, except heating and ventilating, to Enoch W. Hooper, at $78,576.

CHESTER, PA.—Bids are asked by the school board until Nov. 1 for erecting a new high school building. Address Joseph D. Oliver, Chn. Bldg. Com.

LANCASTER, PA.—Bids are asked for building "The Synagogue," by the congregation Deggel Israel. Address Joseph Cohn, 12 South Queen St.

PHILADELPHIA, PA.—A fire in this city Sept. 27 destroyed the 5-story brick building at 1707 and 1709 Filbert St., occupied by the Macey Furniture Co., and others; reported loss, $100,000.——Benjamin Ketcham & Sons, 1019 Brown St., are reported to have been awarded the contract for erecting a warehouse building, 87×195 ft., for William Weightman at 935 and 937 Market St., to cost about $50,000. W. G. Hale, Arch., Weightman Bldg.

WASHINGTON, D. C.—Attorney-General Griggs has selected the plans of George B. Post, 33 East 17th St., New York, for the new department of justice building, to be erected at Pennsylvania Ave. and Madison Place, to cost about $800,000.——A 5-story brick and stone apartment building, 68 × 100 ft., will be erected for A. A. Bliss, at 1st and B Sts., N. W., to cost $75,000.

BALTIMORE, MD.—It is reported that plans have been completed by D. H. Burnham, Chicago, Ill., for the new 12-story building to be erected at Baltimore and Calvert Sts. for the Continental Trust Co. Contracts are about to be let.

NORFOLK, VA.—A fire at this place Sept. 29 destroyed the joint deep-water terminal warehouse No. 2, 761×200 ft., of the Atlantic Coast Line and the Southern Ry.; reported total loss, about $800,000.

ATLANTA, GA.—Bids are asked until Nov. 27 for the erection of a 3-story independent annex building, 104 × 132 ft., for the Fulton county court house. Grant Wilkins, Engr., 9½ Peachtree St., Atlanta. Address A. L. Kontz, Clk. County Comrs.

MACON, GA.—Plans have been prepared for a new warehouse to be erected at the foot of Poplar St. for English, Johnson & Co., cotton merchants; reported cost, about $25,000.

BRISTOL, TENN.—The following bids were received by the supervising architect, Washington, D. C., Sept. 28, for the construction of a U. S. building at Bristol: L. L. Leach & Sons, Chicago, $55,300, time, 12 mos.; McIlvain-Unkefer Co., Pittsburg, Pa., $54,947, 12 mos.; Smith & Wilson, Bristol, $46,190, 2 years.

NEWPORT, KY.—The Schurmann-Bless Co., Cincinnati, O., is reported to have been awarded the contract for erecting the new U. S. building in this city, at $53,000.

CINCINNATI, O.—A fire in this city Sept. 30 destroyed the large warehouse and freight station of the Cleveland, Cincinnati, Chicago & St. Louis Ry., causing a loss of between $500,000 and $1,000,000.

ANN ARBOR, MICH.—Bids are asked until Oct. 7 for erecting a hospital building for the University of Michigan in this city. Jas. H. Wade, Secy. Bd. of Regents; Samuel McC. Stanton, Arch.

CHICAGO, ILL.—Bids are asked by the business manager of the board of education, 1110 Schiller Bldg., 109 Randolph St., until Oct. 6, for the masonry, cut stone, structural iron, etc., for the Calumet Ave. school building, at 41st St. W. B. Mundie, Arch.——The Commonwealth Electric Co. has been granted a building permit to erect a power house at Wallace and 56th Sts., to cost $75,000.

DIXON, ILL.—Charles E. Brush, Arch., 79 Dearborn St., Chicago, Ill., has been selected as architect for the new Lee county court house, to cost about $100,000.

DUBUQUE, IA.—Bids are asked by the supervising architect, Washington, D. C., until Oct. 30, for the construction (except heating apparatus, electric wiring and conduits), of the addition to the U. S. building at Dubuque.

HEDRICK, IA.—Bids are asked at once for erecting a 2-story brick bank building, 22 × 63 ft., at Hedrick. J. T. Brooks may be addressed.

WONEWOC, WIS.—Bids are asked by the board of education until Oct. 20 for erecting a school building at this place. F. R. Potter, Clk. of Bd.; Chandler & Park, Archs., Racine, Wis.

MINNEAPOLIS, MINN.—Plans have been prepared, according to reports, for a 2-story brick, terra cotta and stone building, 44×106 ft., for the Augsburg Seminary in this city, to cost about $30,000. Omeyer & Thorl, Archs., Chamber of Commerce Bldg.

PARK RAPIDS, MINN.—E. R. Hind, Chn., Hubbard, Minn., informs us that Hubbard county voted, Sept. 21, to issue $15,000 of bonds for a new court house. Plans and specifications will be considered in about one week and contract let as soon as possible thereafter.

ST. PAUL, MINN.—The following bids were received by the supervising architect, Washington, D. C., Sept. 28, for making alterations to the low-pressure and exhaust steam-heating and mechanical ventilating apparatus in the U. S. building in St. Paul: W. F. Porter, Minneapolis, Minn., $20,344; time 500 days; New Prague Mfg. Co., New Prague, Minn., $12,765; 300 days; Geo. R. Morton, St. Paul, $13,350; 90 days; Davis Heating & Plumbing Co., St. Paul, $12,250; 90 days; Allan Black, St. Paul, $14,229; 500 days.

PITTSBURG, KAN.—Bids are asked until Oct. 25 for erecting a new city hall building in this city, to cost about $35,000. E. E. McKibban, Arch., Muscogee, Ind. Ter.

CANTON, S. DAK.—Bids are asked by the Office of Indian Affairs, Washington, D. C., until Oct 24 for constructing a brick insane asylum building at Canton. For further information, apply to John Charles, Menomonie, Wis.

WARSAW, N. DAK.—Bids are asked until Dec. 5 for erecting a Roman Catholic church building for the Polish congregation of St. Stanislaus at Warsaw, 5½ miles east of Minto. H. J. Ross, Arch., 1201 Fort Dearborn Bldg., Chicago, Ill. Address Rev. Frank Gawlowicz, Warsaw.

KALISPELL, MONT.—Plans and specifications are asked until Oct. 13 for a court house building for Flathead county, to cost within $35,000.

LITTLE ROCK, ARK.—The State Deaf Mute Institute buildings in this city, were destroyed by fire Sept. 30.; estimated loss, $150,000.

FORT WORTH, TEX.—Competitive plans are asked until Nov. 1 for the new Carnegie public library building. Address Howard Messer, Local Supt., Fort Worth.

SPOKANE, WASH.—The contract for constructing the new Empire State building at Riverside and Lincoln Sts. has been let by Clark & Sweeny to Peter L. Peterson; estimated cost, about $35,000. J. K. Dow, Arch.

LOS ANGELES, CAL.—We are informed that nothing definite has yet been decided upon as to the sale of bonds, but that $200,000 of school bonds will probably be offered soon. C. H. Hance, Cy. Clk.

SAN FRANCISCO, CAL.—Competitive plans are asked by the supervisors until Oct. 16 for a hospital building. John A. Russell, Clk.

SAN FRANCISCO, CAL.—Reports state that a new business building will be erected at Mission and Fremont Sts. for Miller, Sloss & Scott, to cost about $200,000. Albert Pissis, Arch., 307 Sansome St.

HONOLULU, HAWAII.—Reports state that a 4-story building to cost about $70,000 is to be erected at Fort and Beretabia Sts. for Senator C. D. Clark, Evanston, Wyo., and others.

SYDNEY, N. S. W.—A fire in this city Oct. 1 destroyed the Peninsular buildings of the printing establishment of W. E. Smith, 26 Bridge St., causing a reported loss of about $200,000.

WATER-WORKS.

WILLIMANTIC, CONN.—R. E. Mitchell, Civil Engr. and Surv., writes us that the city has let the contract to Henry R. Worthington, Liberty St., New York, for furnishing a pair of horizontal duplex pumps, at $7,400. The pumps are to be delivered and set up on or before May 1.

BALLSTON SPA, N. Y.—Bids are asked until Oct. 6 for constructing a reservoir and necessary pipe, etc.; estimated cost about $12,000. W. H. Sherman, Clk.

BUFFALO, N. Y.—The Standard Water Meter Co., New York, is reported to have been awarded the contract, at about $10,000, for a supply of water meters for the coming season. The itemized bids were given in our issue of Aug. 24.

FRANKLIN, N. Y.—The village has voted to increase the water supply, according to reports.

LIMA, N. Y.—This place voted Sept. 22 to issue $23,000 in bonds for the proposed works. J. F. Witmer, Engr., Ellicott Square, Buffalo, N. Y.

LIVONIA STATION, N. Y.—Chas. H. Richmond, Pres., writes us that the contracts for the materials and for works have been let. Bids for the purchase of $22,500 of bonds for the works are wanted until Oct. 11. J. F. Witmer, Engr., Buffalo.

DOVER, N. J.—Plans and specifications are asked until Nov. 1 for a new water supply for this town, as described in our advertising columns. Water at present is furnished by the Dover Water Co. I. W. Searing, Chn. Com.; F. H. Beach, Mayor; D. R. Hummer, Town Clk.

PLAINFIELD, N. J.—The council has made a contract with the Watchung Water Co. to furnish water in the west end of the city for fire protection.——The council is being urged to take steps looking to the municipal ownership of the works.

ALLENTOWN, PA.—The Holly Mfg. Co., Lockport, N. Y., is reported to have been awarded the contract for furnishing an 8,000,000-gallon pump, at $26,870, exclusive of foundations. The other bids were as follows: Knowles Steam Pump Works, New York, No. 1, $38,000; No. 2, $30,000, both without foundations; Snider-Hughes Co., Cleveland, $31,500, without foundations; Barr Pumping Engine Co., Philadelphia, No. 1, $34,500; No. 2, $26,490; No. 3, $31,350; No. 4, $28,200, all excluding foundations; Henry R. Worthington, New York, No. 1, $19,490; No. 2, $28,920, both without foundations; Holly Pump Mfg. Co., Lockport, N. Y., No. 1, $24,700; No. 2, $35,800; No. 3, $26,870, excluding foundations; rotary, P. H. & F. M. Root, Connersville, Ind., No. 1, $19,400; No. 2, $22,500, excluding foundations; 10,000,000-gallon pump, the D'Auria Pumping Engine Co., Philadelphia, $20,000. This includes foundations.

LEWISBURG, PA.—The White Deer Mountain Water Co. has been incorporated, with a capital of $250,000, by J. T. Baker, of Lewisburg; J. I. Higbee, of Watsontown; A. M. Gray, of Philadelphia; E. Datesman, of West Milton; C. Leinbach, of White Deer.

MASONTOWN, PA.—Reports state that bids will soon be asked by the Huron Water Co. for constructing works to cost about $150,000. J. P. Brennan, Mgr.

SCRANTON, PA.—The Pocono Mountain Water Supply Co. has been incorporated, with a capital of $5,000. A. Reynolds, of Scranton; Claude C. Shull, of Stroudsburg.

TYRONE, PA.—Councilman J. C. Ewing writes us that an election will be held Nov. 7 to vote on the question of issuing bonds for works. Population, 8,000.

WILMINGTON, DEL.—Bids are asked until Oct. 10 for constructing a steel water tower. J. A. Bond, Ch. Engr.

BARTON HEIGHTS, VA.—It is stated that plans and specifications for works and a light plant will soon be wanted. A. H. Meyer and A. W. Martinstein are on the committee.

ST. MARYS, W. VA.—Bids are asked until Oct. 16 for furnishing the material and for constructing works, as stated in our advertising columns. Jackson & Knox, Engrs., Parkersburg, W. Va.; J. M. Imlay, Chn. Com.

GASTONIA, N. C.—J. L. Ludlow, Winston, N. C., is preparing plans for works, a sewerage system and an electric plant.

DAWSON, GA.—Reports state that Judge Newman has decided that this city cannot build municipal works, as it has a contract with the Dawson Water Co.

SUMMERVILLE, GA.—Reports state that the village proposes to improve its works.

KISSIMMEE, FLA.—We are informed that the city has not yet decided upon plans for works and an electric plant, but it is hoped that it will soon be able to construct the plant. P. P. Hughey, Cy. Clk.

MIAMI, FLA.—The Miami Power & Water Co. has been incorporated with a capital stock of $50,000.

MONTGOMERY, ALA.—The following bi is were received by the council Sept. 26 for improving the pumping station: Worthington & Shafter, Montgomery, $14,697 (accepted); Jno. W. Hood & Co., $19,250; Cook & Laurie, $16,563; ft. Hugger Bros., $15,284; Thos. A. Davis, $19,350; Graves & Anderson, $16,800.

PRATT CITY, ALA.—The Birmingham Water-Works Co. has submitted a proposition to put in works and supply this city with water until 1921. The company proposes to lay a 16-in. main to Pratt City and Ensley, at a cost of about $60,000. Alber & Byrne, Engrs., Birmingham, Ala.

BEREA, O.—Bids are asked until Oct. 21 for furnishing the materials and for constructing proposed works, as described in our advertising columns. L. E. Chapin, Consult. Engr., Canton, O.; D. T. Gould, Pres. Water-Works Trustees.

CLEVELAND, O.—Local papers state that M. W. Kingsley, Supt. Water-Works, has about completed plans for the proposed Kirkland pumping station, and that bids for the work will be opened in about a month. Bids will also probably be asked this season for two pumping engines of 25,000,000 gallons each.

MARTINS FERRY, O.—Bids are asked until Oct. 18 for furnishing and laying about 3,588 ft. of 20-in., 5,650 lbs. of specials, two 20-in. gate valves, etc., and until Nov. 2 for furnishing and erecting a 4,000,000-gallon vertical compound condensing high-duty pumping engine and fixtures. T. E. Pugh, Secy. Bd. Water-Works Trustees.

COLLINWOOD, O.—This place voted Sept. 25 to issue $60,000 in bonds for works.

DELAWARE, O.—It is proposed to submit the question of municipal ownership of the works to the people at the November election.

PERRYSBURG, O.—The question of building works and a sewerage system is again being considered, according to reports; estimated cost of works, $22,000. Address Fred Wentz, County Surv.

NEW ALBANY, IND.—Geo. B. Cardwell, Secy. Commercial Club, writes us that the works and the electric plant, private ownership, are unsatisfactory. Half a dozen ordinances are before the council concerning these matters. Efforts are being made to have municipal works, etc. Population, 21,000.

LESLIE, MICH.—The city clerk writes us that the contracts for works to cost about $16,000 have been let.

MANISTEE, MICH.—The city has sold $100,000 of water-works bonds to the First National Bank of Columbus, O., at $2,752, according to reports. The proceeds of these bonds are to be used for the purchase or for the construction of works.

READING, MICH.—M. G. Melley, Pres., writes us that this place has voted to issue $20,000 in bonds for works. No further steps have been taken. Population, 1,500.

GENOA, ILL.—Bids are asked until Oct. 10 for furnishing the materials and for constructing the proposed works, as described in our advertising columns. Daniel W. Mead, Engr., Consult. Engr., 605 First National Bank Bldg., Chicago, Ill.; H. A. Perkins, Clk.

FOND DU LAC, WIS.—It is stated that the Fond du Lac Water Co. proposes to put in water meters.

KILBOURN, WIS.—Reports state that this place has decided to secure an additional water supply by sinking new wells and putting in a new pumping plant. W. G. Kirchoffer, Engr., Baraboo, Wis.

OSKALOOSA, IA.—The council has accepted the proposition from the Oskaloosa Water Co. to purchase the property for $218,000, the company to spend about $35,000 in extending the mains, etc. The question will soon be submitted to a vote of the people.

BRIDGEWATER, S. DAK.—The question of works is being considered, according to reports.

HOWARD, S. DAK.—Capt. J. P. Ryan and J. W. Seney are reported to have been awarded the contract for works, at $5,397.

RAPID CITY, S. DAK.—Bids are asked until Oct. 9 for constructing small works at the county poor farm. P. F. McMahon, County Audr.

HILLSBORO, N. DAK.—It is stated that the question of issuing bonds for works will be voted upon at the November election.

LIBERTY, MO.—We are informed that on Sept. 12 a 20-year franchise and contract was granted to Ward M. Latson, Liberty.

GREENVILLE, TEX.—W. L. Beckham, Pres. Greenville Pure Water Co., writes us that the plans for the proposed works will not be ready until about Jan. 1. Population (1890), 4,300. A. V. Kellogg, Engr.

WACO, TEX.—C. C. McCulloch, Mayor, writes us that the question of municipal works is only being considered.

DENVER, COLO.—The board of aldermen has adopted Alderman Alexander's resolution authorizing the purchase of the present works or the construction of a new plant. It is proposed to issue $4,700,000 in bonds for the improvement.

REDLANDS, CAL.—A committee of citizens is to be appointed to act with the city trustees in regard to securing plans for municipal works and submitting the question of issuing bonds to the voters. Address Dr. W. Smith, B. H. Jacobs and H. H. Sinclair.

SACRAMENTO, CAL.—H. F. A. Schussler, of San Francisco, and Allen Hazen, 220 Broadway, New York, are reported to have been engaged to act as advisory engineers in connection with the proposed new water supply. Address City Trustee Tozer.

SONORA, CAL.—The city trustees have refused to grant a franchise for works to the Sonora City Water Co., according to reports. It is stated that the city will soon hold another election to vote on the question of municipal works. Population (1890), 757.

HALIFAX, N. S.—Press reports state that Geo. H. Hill & Son, 3 Victoria St., S. W., London, England, and Manchester, have been engaged to prepare plans for improvements to the works, which are stated to cost about $1,000,000.

WINDSOR, N. S.—Anthony Sanford, Burlington, is reported to have been awarded the contract for a new water-works dam.

YARMOUTH, N. S.—The question of new mains and a new pump is being considered. Address Councilman Crun and Superintendent Robertson.

BRISTOL, ENGLAND.—Bids are asked until Oct. 16 by the West Gloucestershire Water Co. for constructing an engine house, foundations, etc. E. D. Morten, Engr., The Birches, Codsall, Wolverhampton; S. T. Andrews, Secy. and Mgr.

IRRIGATION.

JENNINGS, LA.—The Wilkinson Canal & Irrigating Co. has let a contract to Thomas Lamant & Co. for dredging the Bayou Chene. The work calls for a channel 40 ft. wide, 6 ft. deep, and 18 miles long, which will hold a supply of water for irrigating purposes, according to reports.

LOS ANGELES, CAL.—We are informed that the Santiago Creek Irrigation Co. is considering the question of constructing a large reservoir and pumping plant in the bed of the creek, as demanded by the stockholders.

SAN BERNARDINO, CAL.—Local papers state that a project for irrigating in this county is now under consideration. The improvement includes the construction of a diverting dam 60 ft. high, and 614 ft. wide in the Holcomb Valley, making it a storage reservoir for collecting the winter rains, which will be conveyed into the reservoir by channels, tunnels and pipe lines having a capacity of 10,000 ins.

SANTA ANA, CAL.—It is stated that a new company has been recently incorporated for the purpose of irrigating and developing water on the Rincon ranch by means of wells or tunnels. The capital stock is $200,000.

SEWERAGE.

PORTLAND, ME.—Thos. Shannahan has been awarded the contract, at $3,313, for constructing 650 ft. of 30-in. sewer in Franklin St. John J. Mahoney was the next lowest bidder, at $3,710.

FAIRHAVEN, MASS.—The question of improving the sewage pumping station and certain sewers, at a cost of about $4,600, is being considered.

BUFFALO, N. Y.—The aldermen have accepted the proposition of Michael J. Burke & Co. to abate the Hamburg Canal nuisance. New sewers and a sewage pumping station will be built, and there will be considerable filling in. The entire work will cost about $652,100.

GOSHEN, N. Y.—The council, it is reported, will soon engage an engineer to prepare plans for a system.

LIBERTY, N. Y.—The sewerage commissioners have let the contract to Jacob Vanvoordt, Passaic, N. J., at $38,000, for constructing a system, to include a septic tank, 75 x 200 ft.

MASSENA, N. Y.—Plans for the proposed system have been completed by Engineer Bates.

NEW YORK, N. Y.—Bids are asked until Oct. 11 for sewers in 13 streets in Brooklyn and the Bronx. Jas. Kane, Comr. of Sewers, 21 Park Row.

OSWEGO, N. Y.—The city engineer has been directed to prepare plans for sewers in Wards 5 and 70.

PORT JERVIS, N. Y.—It is proposed to extend the outlet sewer 500 ft. to the main channel of the Delaware River. The board of health has recommended that bids be asked at once. C. C. Boyd, Pres. Sewerage Bd.

ROCHESTER, N. Y.—Thos. Holohan has been awarded the contract, at $4,761, for constructing the sewers in Masseth and Hague Sts.

ATLANTIC CITY, N. J.—Mayor Jos. Thompson, Sam'l Kirby and Dr. A. B. Shimer are reported as interested in a proposed plan to develop Eberon, an island near here. Sewers, streets and houses will be built.

ELIZABETH, N. J.—Bids are asked until Oct. 16 for constructing 1,300 ft. of 12-in. pipe sewer, 12 manholes, etc. N. K. Thompson, St. Comr.

RIDGEFIELD PARK, N. J.—D. S. Servoss writes us that the construction of a separate system was favored at the meeting Sept. 18. The contract for the work has been let and the bonds issued.

ROSELLE, N. J.—Bids are asked until 8 p. m. Oct. 6 for constructing 1,000 ft. of 8-in. pipe sewer, 7 ft. deep, three manholes, etc. H. C. Van Emburgh, Engr.-in-Charge, Plainfield; G. A. Rawlins, Borough Clk.

SEA ISLE CITY, N. J.—The ordinance granting a 99-year franchise to the Sea Isle City Sewerage Co., recently incorporated, with a capital stock of $50,000, has passed its third reading. Selden Twitchell, John J. Burleigh and John M. Kelley are interested.

WASHINGTON, D. C.—Bids are asked by the district commissioners until Oct. 21 for constructing certain sewers, as stated in our advertising columns.

GASTONIA, N. C.—Plans for a system, water-works and an electric plant have been prepared by J. L. Ludlow, Winston, N. C.

SALISBURY, N. C.—J. L. Ludlow, Winston, N. C., has completed plans for a system.

NEWNAN, GA.—Bids are asked until Oct. 18 for constructing a system, as stated in our advertising columns. A. R. Burdette, Mayor; J. R. McCollum, Chn. Com.; N. Wilson Davis, Engr.

BIRMINGHAM, ALA.—Bids are asked until Oct. 18 for extending the 2d Ave. storm sewer, the work to include 144,000 lbs. of steel I-beams, 12,000 cu. yds. of excavation, 5,000 cu. yds. of masonry. Julian Kendrick, Cy. Engr.

DONALDSONVILLE, LA.—It is proposed to issue $40,000 in 5% bonds for sewers, paving, etc.

COLUMBUS, O.—The director of public works has announced that he is in favor of beginning work on the sewage purification plant as planned by Alvord & Shields, The Rookery, Chicago.

LORAIN, O.—The following were the lowest bids for certain sewers received Sept. 28: W. J. Townsend, for East Erie, $17,554; Lawrence Burgett, for Oberlin Ave., $17,191; W. J. Townsend, for Penfield Ave., $43,395.

PERRYSBURG, O.—Fred. Wentz, County Surv., is making surveys for a system, according to reports.

SPRINGFIELD, O.—It is proposed to construct pipe sewers in certain streets.

WELLSVILLE, O.—Bids are asked by the sewage commission of the council until Oct. 30 for building a system. Address Councilmen Bowers, Moreland and Rex.

COLUMBUS, IND.—The following bids were received Sept. 21 for constructing certain sewers: Mill Race sewer—Earler & Peter, $10,044 (accepted); Capital Paving & Construction Co., Indianapolis, $13,746; Henry C. Kammeier & Co., Port Huron, Mich., $13,950; C. M. Keller & Co., $15,504; Wm. Everroad & Sons, $16,420. 7th and California St. sewer—Earler & Peter, Terre Haute, $4,752; Henry C. Kammeier & Co., $4,894; Everroad & Sons, $5,115; Capital Paving & Construction Co., $4,954; Porter, Bowlin & Hadley, Tipton, $5,193; C. M. Keller & Co., $6,367.

BAY CITY, MICH.—Bids are asked until Oct. 9 for constructing a 12-in. pipe sewer. O. A. Watrous, Chn. Bd. Pub. Wks.

HOUGHTON, MICH.—Thos. J. Peter, Terre Haute, Ind., has been awarded the contract for constructing sewers, at $16,149. Jos. Croze, Pres. Council.

MORRIS, ILL.—We are informed that plans for a system have been completed, but no appropriations have been made, and probably will not be before next spring. Alvord & Shields, Engrs., The Rookery, Chicago; J. A. Wilson, Mayor.

MINNEAPOLIS, MINN.—City Engineer Sublette has recommended that $110,000 be appropriated for new sewers.

ST. PAUL, MINN.—Bids are asked until Oct. 5 for building sewers in several streets. C. H. Bronson, Clk. Bd. Pub. Wks.

BILLINGS, MONT.—T. R. Hinds, Butte, Minn., has been awarded the contract, at about $25,000, for building sewers in the north side of the city.

LEXINGTON, MO.—Ford & Hawkins, Sweet Springs, Mo., have been awarded the contract, at $5,480, for building sewers.

ROCK PORT, MO.—The question of building a system is reported as being considered.

ST. JOSEPH, MO.—Chas. H. Nowland has been awarded the contract, at about $5,000, for building a section of the Blackmake sewer.

FOLSOM, CAL.—Bids are asked until Oct. 21 for constructing a sewage disposal plant at the Folsom state prison, at a cost of about $15,000. Convict labor will be used. B. F. Smith, Clk. Bd. State Prison Directors.

LONG BEACH, CAL.—Arrangements are reported as being made by the city trustees for the proposed system.

SAN FRANCISCO, CAL.—C. E. Grunsky, San Francisco, has been engaged to prepare plans at once for a main intercepting sewer, lateral sewers and a sewage disposal plant. J. A. Russell, Clk. Bd. Supervisors.

SANTA ANA, CAL.—Thos. H. James, Cy. Engr., writes us that it is proposed to construct 5,000 ft. of 10 and 12-in. pipe sewer, at a cost of $5,200, and a sewage pumping plant to cost $3,800. The pump will convey the sewage from the low level sewers to the main sewer 20 ft. high.

CHESLEY, ONT.—Bids are asked by the Reeve until Oct. 6 for constructing 2,250 ft. of pipe sewer, 7½ ft. average cut, and 2,000 ft. of 6-in. pipe connections. R. McDowall, Engr.

GARBAGE DISPOSAL—STREET CLEANING

LIMA, O.—The city has made a contract with the Ohio Sanitary Co. for the removal of all garbage, refuse, etc. Jas. J. Forrester and Stephen Bowman are interested.

MILWAUKEE, WIS.—The city has been enjoined from awarding a contract for a garbage disposal plant to the Engel Sanitary & Cremation Co.

STREETS AND ROADS.

MANCHESTER, N. H.—Bids are asked by Chairman Dow of the commissioners appointed to survey and lay out a state highway from the Massachusetts line northwest to the Piscataquog River in Manchester, until Oct. 15 for surveying the proposed highway. The road, which will be about 20 miles long and 50 ft. wide, with a carriage track of 16 ft., will be built of telford macadam, and is estimated to cost $100,000.

BOSTON, MASS.—Bids are asked by the Massachusetts Highway Commission until Oct. 5 for constructing about 3,000 ft. of highway in South Hadley, 3,000 ft. in Warren, 2,600 ft. in Milton, 11,000 ft. in Acton, 5,000 ft. in Chesire, and 2,600 ft. in West Brookfield and Ware.

JAMESTOWN, R. I.—Local papers state that at an election recently held it was voted to expend $3,000 for macadamizing in Narragansett Ave.

SOUTH NORWALK, CONN.—We are informed that the proposed road improvements in this place consist of grading and graveling about three miles of roadway, 20 ft. wide.——Plans have been prepared by W. B. Rider, Engr., and the work will be under the supervision of J. Macdonald, State Highway Comr., Hartford.

WALLINGFORD, CONN.—Bids are asked by the board of selectmen until Oct. 6 for macadamizing a section of road in this town.

BROOKLYN, N. Y.—The board of local improvements has recommended the paving of Berry St., between North 13th St. and North 14th St., and Nassau Ave., from North 14th St. to the junction of Lorimer St. and Bedford Ave., with asphalt. Work will begin soon, according to reports.

BUFFALO, N. Y.—The project of a municipal paving plant, for which one acre has been recommended in the resolution providing for ten acres for a municipal gas plant, is the subject of discussion among the aldermen and other municipal authorities.

ELMIRA, N. Y.—The contract for paving around the freight depot of the Delaware, Lackawanna & Western R. R., at the corner of East Clinton and State Sts., has been let to Costello & Neagle, at about $9,000. Granite blocks will be used for the work.

NEW YORK, N. Y.—Bids are asked until Oct. 17 for asphalting in five streets in the Borough of Brooklyn, and asphalting three streets in the Borough of Manhattan. James P. Keating, Comr. Highways.

ROCHESTER, N. Y.—The following contracts were awarded by the executive board on Sept. 27 for street improvements: Brighton St., trap rock, Thomas Holohan, $11,601; Webster Ave., cement walks, H. B. Hooker, $4,524.

SCHENECTADY, N. Y.—Bids for street work were received by the council on Sept. 26 as follows: Union and Wendell Aves., paving, Metropolitan Paving & Construction Co., $19,485; Callanan Road Improvement Co., $19,440 (accepted); Sidewalks—Metropolitan Paving & Construction Co., $2,225; Callanan Road Improvement Co., $1,290 (accepted). Kelton Ave, paving: Metropolitan Paving & Construction Co., $6,261 (accepted); John Twomey, $6,710. Mumford St., paving: Metropolitan Paving & Construction Co., $8,696; Kellam & Schafer, $8,220 (accepted.——An ordinance for grading on Mott St. was adopted at the last meeting, upon motion of Alderman Holtzmann, who also submitted a report on the cost of grading and curbing on Clinton St., which amounted to $5,999. The hearing on the Duane Ave. improvement was set for Oct. 10.

ELIZABETH, N. J.—Bids are asked until Oct. 16 for about 1,350 cu. yds. of excavation, 900 ft. of curbing, 900 ft. of flagging, and for laying 972 sq. yds. of telford pavement, 648 sq. yds. of trap block pavement, and 989 lin. ft. of curbing. N. K. Thompson, St. Comr.

JERSEY CITY, N. J.—The street and water commissioners have authorized the chief engineer to prepare plans for paving Palisade Ave., from Hoboken Ave. to Newark Ave.

JERSEY CITY, N. J.—Bids are asked until Oct. 10 for about 5,125 sq. yds. of Belgian block paving and for about 6,800 sq. ft. of flagging. Geo. T. Bouton, Clk. Bd. St. and Water Comrs.

NEWARK, N. J.—The following are the lowest bids received by the road committee of the board of freeholders on Sept. 21: For the Bound Brook road—Phillips & Co., Kemet Square, Pa., $8,170; for the Old Bridge road—J. F. Shanley, Newark, $36,650; for the Cranbury road—R. A. Montgomery, Jersey City, $53,006. As there was not sufficient money appropriated to cover the expense of all the work, the selectmen decided to award only one contract, and the Old Bridge—New Brunswick road was selected, J. F. Shanley, at $36,650, receiving the award.

ALLEGHENY, PA.—Bids are asked until Oct. 9 for improvement to several streets. Robt. McAfee, Dir. Com. Pub. Wks.

CAMDEN, PA.—Local papers state that the council on Sept. 28 authorized an appropriation of $8,500 for the improvements of streets, which will be expended for repaving Federal St. and Delaware Ave.

PHILADELPHIA, PA.—Reports from local papers state that plans are being prepared for the proposed improvement of Delaware Ave. to involve an expenditure of $70,000. Bids will soon be asked for the work.

PITTSBURG, PA.—An ordinance providing for the widening of Hamilton Ave. to 60 ft. between Fifth Ave. and Frankstown was passed by the council ou Sept. 25. The cost of the improvement is estimated at $84,000.

BALTIMORE, MD.—The council is considering the question of repaving North Ave. with asphalt, between Washington St. and Madison Ave., to cost about $177,870.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until Oct. 5 for furnishing 5,000 cu. yds. of macadam stone broken to a 2-in. size, as stated in our advertising columns.——The Cranford Paving Co. has been awarded the contract for laying cement sidewalks in the district.

LAKE CITY, FLA.—Bids are asked until Oct. 20 for the purchase of $7,500 in street improvement bonds, according to reports. W. M. Ives, Cy. Clk.

NEW ORLEANS, LA.—Local papers state that the council is considering the question of paving Camp St. with asphalt.

CLEVELAND, TENN.—Bids are asked by the county road commissioners until Oct. 17 for constructing about 95 miles of macadam road in this county. F. A. Dunham and E. C. Brown, Engrs.-in-Charge.

CANTON, O.—Bids are asked by the city clerk until Oct. 9 for the purchase of $16,500 in bonds for street improvements

CINCINNATI, O.—Bids are asked until Oct. 16 for keeping certain streets in repair for a period of five years. Geo. H. Spellmire, Clk. Bd. Cy. Affairs.——At a meeting of the Board of Local Improvements Committee on Finance on Sept. 20, the appropriation for street repairs was increased from $94,700 to $100,000.

EAST LIVERPOOL, O.—Reports state that the council is considering the question of constructing a new boulevard to run from the new park to Anderson's Farm.

GALION, O.—Bids are asked until Oct. 7 for paving in North Columbus St., according to reports. J. O. Ross, Cy. Clk.

LANCASTER, O.—John N. Wolfe, Cy. Engr., writes us that the proposed pavement of High St. has been postponed until spring, owing to the lateness of the season.

NILES, O.—Bids are asked until Oct. 17 for paving Mill and Furnace Sts. with asphalt block, according to reports. J. L. McDermott, Cy. Clk.

FRASER, MICH.—Local papers state that the county road commission has decided to build a new road to run from the Michigan Central R. R. crossing in Linwood west to Clancys corners, and north to the line between Fraser and Pinconning.

CHICAGO, ILL.—Bids are asked until Oct. 7 for paving one street with aspalt, six streets with brick, four streets with granite, one street with cedar block and one street with slag and gravel. L. E. McGann, Pres. Bd. Local Improvements.

MOLINE, ILL.—City Engineer Paddock estimates the cost of paving Fourth Ave. at $34,454.

RIPON, WIS.—The council has awarded a contract to John Fife, Oshkosh, for paving certain streets with brick at $20,536.

MINNEAPOLIS, MINN.—City Engineer Sublette has submitted his estimates for improvements in which he recommends an appropriation of $28,000 for paving.

KANSAS CITY, MO.—Bids are asked until Oct. 10 for constructing granitoid sidewalks in 14 streets, for grading and curbing four streets, and until Oct. 30 for constructing granitoid sidewalks in Forest Ave. Henry A. Wise, Cy. Engr.

SPOKANE, WASH.—The board of public works on Sept. 22 received the following bids for street improvements. Spokane St., grading and curbing—Fife & Conlan, $7,950; James Broad, $7,099; August Ilse, $7,200; Peter Costello, $6,930. Spokane St., sidewalks—City Street Improvement Co., $1,228. Grant St., grading and curbing—Fife & Conlan, $5,830; James Broad, $4,779; August Ilse, $4,980; Peter Costello, $4,550. Grant St., sidewalks—City Street Improvement Co., $1,242.

OAKLAND, CAL.—The contract for macadamizing the county road from San Lorenzo to Mt. Eden has been awarded to E. B. Stone, at $3,650.

SAN RAFAEL, CAL.—Bids are asked until Oct. 7 for macadamizing the Red Hill Road, according to reports. Robt. E. Graham, Clk. Bd. Supervisors.

WINDSOR, ONT.—Bids are asked until Nov. 1 for furnishing about 12,000 tons of broken stone for constructing macadam roads. Stephen Lusted, Cy. Clk.

MEXICO, MEX.—The council will soon let contracts for paving in this city amounting to nearly $2,000,000, for which American, English and Mexican contractors have submitted bids that are now under consideration. It is quite probable that asphalt will be used, as it has been tried before with satisfaction.

MANUFACTURING PLANTS.

WATERVILLE, ME.—Bids are being asked by Armour & Co. for the construction of a refrigerating plant at Waterville; estimated cost, $15,000. This is to be the distributing point.

ALLEGHENY, PA.—It is reported that the old Jennings steel plant in this city is to be remodeled and occupied by the Orient Steel Works, a new company incorporated by Grant McCargo, Henry C. Wasson, H. H. Patterson and others.

OWENSBORO, KY.—The plant of the Owensboro Woolen Mills Co., owned principally by H. B. Phillips, Owensboro, has been damaged by fire. The plant was valued at about $65,000; insurance $45,000.

WYANDOTTE, MICH.—Plans have been prepared, according to reports, for a carriage factory, 180 ft. front, with two wings, 300x60 ft. each, at Elm and 7th Sts., for the Dealers' Vehicle Co., of Detroit, Mich. Joy & Barcroft, Archs., Detroit.

BLOOMINGTON, ILL.—The plant of the Illinois Cereal Co., in this city, was destroyed by fire, Oct. 1, causing a reported loss of $200,000; insurance, $150,000.

JOLIET, ILL.—It is reported that final steps have been taken by the Pressed Steel Car Co. for the proposed enlargement of the Fox plant at Joliet. Plans provide for a 20-acre addition to the present works.

ORANGE, TEX.—The Alex. Gilmore sawmill and lumber yard were damaged by fire Sept. 29, causing a reported loss of $150,000.

GAS PLANTS.

BENNINGTON, VT.—Reports state that a gas plant is proposed for this town. Collins M. Root, Geo. F. Graves, Bennington, and Col. F. S. Richardson, North Adams, Mass., are interested.

LEXINGTON, MASS.—Reports state that a committee has been appointed to examine the Lexington Gas & Electric Light Co.'s plant for the purpose of determining the feasibility of purchasing the same for municipal use.

BUFFALO, N. Y.—The question of constructing a municipal plant is being considered by the board of aldermen.

NEW BRUNSWICK, N. J.—Local papers state that a syndicate headed by John C. Eisele and Nathan King, Newark, is negotiating for the purchase of the New Brunswick Gas Works, for which they have offered $350,000.

PATERSON, N. J.—Reports state that the Paterson and Passaic Gas & Electric Co. has received a franchise from the council for supplying Wallington with gas.

BANGOR, PA.—C. F. Beckwith & Co., Scranton, has received a contract for erecting a gas plant at this place, to cost about $20,000.

TOLEDO, O.—The site of the City Gas Co.'s plant has been selected on Miami St., East Side. The plant will have a capacity of 3,000,000 cu. ft. of gas daily, and will cost about $250,000. James A. Huston, E. W. Tolerton, A. K. Detwiler and others are interested.

CHICAGO, ILL.—The People's Gas Light & Coke Co will construct a tank of 3,500,000 ft. capacity, according to reports.

SOUTH OMAHA, NEB.—Permits have been issued to the Omaha Gas Co. for laying mains in various streets, according to reports.

ABERDEEN, S. DAK.—Reports state that the city has decided to purchase the plants of the Aberdeen Gas & Electric Light Co., to be operated on municipal account.

SANTA PAULA, CAL.—We are informed that the Eureka Oil Co. is preparing to operate extensively on its lease near Peru, and that W. F. Robinson is in charge of the field. Reports state that some good territory is being developed by Loma Oil Co.

NEW COMPANIES.—Utica Oil Co., Salinas, Cal., $75,000; John L. D. Roberts, D. J. Houghton, James F. Moore. Principal place of business, Monterey City. To buy, bond, and lease oil lands, sink wells and operate same; lay pipe lines to convey both oil and water, and to erect and maintain storage tanks.

Sunbury Gas Co., Sunbury, Pa.; $1,000; capital paid in $100; F. H. Shelton, Treas.; D. J. Collins, T. O. Norton, Philadelphia.

Schuylkill Gas Co., Philadelphia, Pa.; $1,000; capital paid in $100; F. N. Shelton, Treas.; T. O. Horton, Chas. R. Miller.

New Standard Oil Co., San Francisco, Cal.; $150,000; Juan C. Alvarado, H. Thompson, A. E. Gray.

Virginia Oil Co.; San Francisco, Cal.; $250,000; A. K. Percival, C. H. Phillips, J. W. Wright.

Geneva Gaslight Co., Geneva, Ill.; $30,000; J. C. Capley, F. W. Verchow, E. H. O'Meara, Batavia.

River Shore Gas Co., No. 522 Main St., Riverton, N. J.; $75,000; Edward H. Ogden, John C. S. Davis.

Central Gas Light & Fuel Co., Wilmington, Del.; $150,000; Edward T. Canby, James L. O'Neill, Gardner W. Kimball, Wilmington.

Union Oil & Gas Co., Wheeling; $500,000; J. J. Benter, E. L. Frame, F. Harris, Wheeling.

People's Gas Co., Plainfield, N. J.; $100,000; William A. Coddington, J. Wesley Johnson, Plainfield; Hugh N. Hammill, Trenton.

The National Oil Co., Yuma, Ariz.; $500,000; M. B. Silver, W M. Walker, D. G. Dexter.

San Bentio Oil Co., Fresno, Cal.; $1,000,000; G. Schwinn, Huron; M. J. Laymance, Oakland; H. A. Pratt, Fresno.

East Side Oil & Gas Co,. Visalia, Cal.; $272,000; Daniel Calcote, J. W. Fewell, R. F. Roth, Visalia.

The Ferndale Petroleum Oil & Development Co., Oakland, Cal.; $100,000; A. C. Dietz, F. Ench, C. H. Cushing.

Fresno and San Benito Oil Co., Fresno, Cal.; $1,000,000; Herman Nathan, E. E. Manheim, H. E. Pratt, Fresno.

Buckhorn Oil & Transportation Co., San Francisco, Cal.; $200,000; J. H. Doolittle, G. B. Merrill, W. Ames, all of San Francisco.

Tar Canyon Oil Co., San Francisco, Cal.; $100,000; J. A. Wilson, W. I. Brobeck, G. R. Gibson, San Francisco.

Reedley Oil Co., Reedley, Cal.; $250,000; J. S. Jones, H. F. Wines, W. W. Green, Reedley.

MISCELLANEOUS CONTRACTS.

TUNNEL.—Luray, Va.—Press reports state that a cut or tunnel, 70 ft. long, in the Luray Caverns is proposed.

BONDS.—New York, N. Y.—Bids are asked by City Controller Coler until Oct. 18 for the purchase of $9,087,107 in bonds.

DIKE.—Chilliwack, B. C.—A contract for 15 miles of dike work at this place has been let to McLean Bros., at $130,000.

DOCKS.—Erie, Pa.—Local papers state that the Pittsburg & Conneaut Dock Co. will enlarge its docks by 1,000 ft. on either side of the river.

TELEPHONE.—Huntington, W. Va.—The Mutual Telephone Co. will expend $50,000 for the improvement and extension of its system in this city, according to reports.

RETAINING WALL.—Fort Brown, Tex.—Bids are asked until Oct. 9 for constructing a retaining wall at this place. Maj. Chas. B. Thompson, Chief Q.-M. U. S. Vols., San Antonio.

CEMENT.—Washington, D. C.—Bids are asked by the county commissioners until Oct. 7 for furnishing about 4,000 barrels of Portland cement, as stated in our advertising columns.

PILE.—Boston, Mass.—The contract for building a temporary pile around the draw of the Chelsea bridge has been awarded by City Engineer Jackson to William J. Lawlor, at $20,029.

PIER.—Tompkinsville, N. Y.—Bids are asked until Oct. 16 for constructing a landing pier at Romer Shoal light station, as stated in our advertising columns. Lt.-Col. D. P. Heap, U. S. Engr.

DREDGING.—Ocmulgee River, Ga.—Local papers state that the work of cleaning out the Ocmulgee River, for which $70,000 was appropriated at the last session of congress, will soon be begun.

DREDGING.—St. Johns River, Fla.—Bids are asked until Nov. 2 for dredging at Orange Mills Flats in this river, as stated in our advertising columns. Capt. C. H. McKinstry, U. S. Engr., St. Augustine.

DREDGING.—Everett Harbor, Wash.—Bids are asked until Nov. 28 for dredging about 2,350,000 cu. yds. from this harbor, as stated in our advertising columns. Capt. Harry Taylor, U. S. Engr., Burke Bldg., Seattle.

WALL.—Lake St. Francis, Que.—Bids are asked until Oct. 9 for constructing a protection wall along North Shore from McGee's Point to Wood's Creek. L. K. Jones, Secy. Dept. Railways and Canals, Ottawa, Ont.

TELEGRAPH AND TELEPHONE.—St. Louis, Mo.—Bids are asked until Oct. 9. for furnishing the material and installing a system of fire and police telegraph and telephone. S. J. Benedict, Supt. Fire and Police Telegraph.

DITCH.—Harvel, Ill.—Bids are asked by the drainage commissioners until Oct. 16 for about 43,681 cu. yds. of earth excavation in certain drainage ditches. B. A. Havener, Town Clk.; J. W. Dappert, Engr., Taylorville, Ill.

BEACONS.—Hawk Channel, Fla.—Bids are asked until Oct. 30 for erecting 18 lighted beacons in Hawk Channel, between Key West and Miami, as stated in our advertising columns. Lt.-Col. A. N. Damrell, U. S. Engr., Mobile, Ala.

JETTY WORK.—St. Johns River, Fla.—Bids are asked until Nov. 3 for constructing about 27,000 tons of stone jetties at the mouth of this river, as stated in our advertising columns. Capt. C. H. McKinstry, U. S. Engr., St. Augustine.

DREDGES.—Montgomery, Ala.—Bids are asked until Nov. 3 for building two dipper dredges ,as stated in our advertising columns. Capt. C. A. F. Flagler, U. S. Engr.

JETTY WORK.—New Orleans, La.—Bids are asked until Oct. 6 for constructing about 400 ft. of jetty at the mouth of New Basin Canal, and for removing old jetty and dredging the new channel and mouth of canal. N. S. Hoskins, Chn. Bd. Control New Basin Canal.

MACHINERY.—New Orleans, La.—The following bids were received by Maj. J. B. Quinn, U. S. Engr., for furnishing operating machinery and power house for improving Bayou Plaquemine: Evans, Almarall & Co., Dey St., New York, N. Y., $118,500; Otis Elevator Co., Empire Bldg., New York, N. Y., $114,000.

PARK.—Chicago, Ill.—The question of constructing a public park at South Chicago to be located on the east side is being considered. W. H. Gustine, Andrew Ringman and John Lawietzen compose the committee that will consult with the south park commissioners on the project. John D. Rockfeller has offered property worth $300,000 for $185,000 for the improvement.

DREDGING, ETC.—Albany, N. Y.—Bids are asked until Oct. 11 for building 540 lin. ft. of vertical wall on the Glens Falls feeder at Sandy Hill; for dredging the harbor and rebuilding the breakwater at Watkins, Seneca Lake; for rebuilding the Wilbur's Basin waste weir and spillways, Champlain Canal, as stated in our advertising columns. John N. Partridge, Supt. Pub. Wks.

HARBOR IMPROVEMENTS.—St. Joseph, Mich.—Reports state that the Cleveland, Cincinnati, Chicago & St. Louis Ry. proposes to make extensive docking improvements, to enlarge their capacity for switches, warehouses and factories, to involve an expenditure of $50,000. The construction of a $30,000 swing bridge across the St. Joseph River is said to be included in the improvements.

LUMBER.—Mexico, Mex.—J. L. Campbell, a Texas lumberman, has received information from an agent in this city that there is a contract to be let for 3,000,000,000 ft. of lumber. Mr. Campbell is making inquiries as to the supply on hand and how long it will take to fill the order, according to reports.

WHARF.—Tompkinsville (S. I.), N. Y.—The following bids were received by Col. D. P. Heap, U. S. Engr., on Oct. 2, for building the northeast face wharf: William T. Ritch, 287 Fourth Ave., New York, $10,632; Hiram M. Conklin, Port Richmond, N. Y., $14,200; B. F. Jones, 147 East 125th St., New York, $14,400; Central Contracting Co., 99 Cedar St., New York, $14,498; Toomey Bros. & Co., Guilford, Conn., $15,975; Frank Pidgeon, Saugerties, N. Y., $28,392.

DREDGING PLANTS.—West Indies.—Reports state that the Thornton N. Motley Co., Inc., 43 John St., New York, is securing estimates for a dredging plant to handle 50,000 cu. yds. a day; estimated cost, about $150,000.——It is also stated that a commission from Japan will soon visit this country to inspect harbor work and to purchase dredging plants, as the Japanese government proposes to do about $14,000,000 worth of work in the Tokio Harbor. Further information may probably be secured by addressing the Japan-American Commercial and Industrial Association, Singer Bldg., Broadway and Liberty St., New York.

CONTRACT PRICES.

PIPE SEWER.—Erie, Pa.—The following bids were received Sept. 7, 1899, for constructing a main sewer in certain streets: John Thornton, 30-in. straight pipe, $3.47; 30-in. branch pipe, $4; 9-in. pipe, 50 cts.; 6-in. pipe, 40 cts.; manhole, $39; B. J. Murphy, $4.60; D. McCormick & Son, $4.70; E. Driscoll, $3.75; John McCormick & Son, $3.95; V. D. Eichenlaub, $4.15.

MACADAM ROAD.—Southington, Conn.—A. Brazos & Son, Middletown, Conn., have been awarded the contract at 72 cts. a lin. ft. for a new macadam road in Queen St.

MACADAM ROAD.—Windsor Locks, Conn.—The B. D. Pierce Co., Bridgeport, Conn., has been awarded the contract at $1.02 a sq. yd. for macadamizing North Main St.

PAVING.—Detroit, Mich.—The following are the lowest bids received Sept. 18, 1899, for certain paving: Pallister Ave., Woodward Ave. to Hamilton Boulevard (original paving), A. C. Lloyd, Medina curbstone, $1.50 a sq. yd; total, $11,586; Elyria curbstone, $1.44; total, $11,071. Eliot St., Woodward to John R. (repaving), Henry Merdian, Medina curb, $1.39; $2,462. Erskine St., Woodward to John R. (repaving), H. Merdian, Medina curb, $1.41; $2,488.

GRADING.—Washington, D. C.—The District Commissioners have accepted the bid of Martin McNamara & Co. to grade a roadway across the northern part of the district from Brightwood Ave. westward at 23 cts. a cu. yd; also the bid of Mathew Myers to grade 22d and 24th Sts., Langdon, D. C., at 32 cts.

SIDEWALKS.—Council Bluffs, Ia.—The following bids were received Sept. 18, 1899, for laying certain brick sidewalks: 12-ft. Walks.—J. M. Harden, cash 75 cts., certificates 80 cts.; B. P. Wickham, cash, 72 cts.; John Skinkle, cash or certificates, 70 cts.; John Mulqueen, cash or certificates 60 cts. 6-ft. Walks.—Harden, cash 35 cts., certificates, 37 cts.; Wickham, cash 34½ cts.; Skinkle, cash or certificates, 34 cts.; Mulqueen, cash or certificates, 33 cts.; 5-ft. Walks.—Harden, cash 31 cts., certificates 32 cts.; Wickham, cash 31 cts.; Skinkle, cash or certificates, 30 cts.; Mulqueen, cash 30 cts.; 4-ft. Walks.—Harden, cash 26½ cts., certificates 27 cts.; Wickham, cash 24 4-16 cts.; Skinkle, cash or certificates 26 cts.; Mulqueen, cash or certificates 27 cts. All the bids figured the same on grading—25 cts. a cu. yd.

DIKE WORK AND DREDGING.—James River, Va.—The following bids were received Sept. 14 for deepening, widening channel of James River, Va., repairing dike, etc., by Lieut.-Col. Chas. J. Allen, U. S. Engr., (1) for P. Sanford Ross, 277 Washington St., Jersey City, N. J. (accepted); (2) Samuel F. Randolph, 80 and 82 Reade St., New York; (3) Frank Pidgeon, 315 Madison Ave., New York: 4,414 cu. yds. earth excavation, (1) 25 cts., (2) 24 3-10 cts., (3) 70 cts. 3,608 cu. yds. cobble excavation, (1) 25 cts.; (2) 24 3-10 cts., (3) $1.25. 7,219 cu. yds. soft rock excavation, (1) 25 cts., (2) 24 3-10 cts. (3) $2.70. 16,393 cu. yds. hard rock excavation, (1) $4.45, (2) $4.41, (3) $6.25. Transporting some 176,000 cu. yds. excavated material below jetty No. 150, (1) 1½ cts., (2) 2 4-10 cts., (3) 2 cts. 725 lin. ft. round pine piles, 20 to 25 ft. long, (1) 21 cts., (2) 17½ cts., (3) 35 cts. 2,200 lin. ft. round oak piles, 20 to 25 ft. long, (1) 34 cts, (2) 17½ cts., (3) 40 cts. 1,900 ft. round oak piles, 30 to 35 ft. long, (1) 34 cts., (2) 17½ cts., (3) 45 cts. 11,400 ft. B. M. white oak wales, (1) $36, (2) $36, (3) $65. 2,720 ft. B. M. heart pine wales, (1) $36, (2) $36, (3) $55. 48,000 ft. B. M. heart pine sheet piling, (1) $36, (2) $36, (3) $55. 14,520 ft. B. M. merchantable sheet piling, (1) $26, (2) $36, (3) $50. Total, (1) $84,459, (2) $85,174, (3) $145,317. Wheeling 15,000 cu. yds. excavated material, (1) 6 cts., (2) 9 cts., (3) 40 cts.

GRADING AND CURBING.—Olean, N. Y.—E. E. Allen, Supt. Sts., informs us that the following bids were received Oct. 2, 1899, for grading and setting curb in West Sullivan St.; all bidders of Olean: (1) being B. U. Taylor & Co., (2) W. H. Simpson, (3) J. H. Havens, (4) Donohue & Green:

		1.	2.	3.	4.
Earth excavation	2,000 cu. yds.	$0.40	$0.42	$0.36	$0.44
Brick crosswalks..	270 sq. yds.	1.30	1.35	1.90	1.40
5-in. curb	3,750 lin. ft..	.45	.47	.43	.50
5-in. curb	380 " "	.75	.70	.49	.77
Curb reset	10 " "	.20	.18	.17	.20
Cobblestone gutter.	170 sq. yds.	1.33	1.35	.56	1.37
Seeding grass plots.	160 sq. rds.	.50	.55	.60	.00
Total		$3,432	$3,552	$3,225	$3,75[illegible]

JETTY WORK, ETC.—Galveston, Tex.—The following bids were received by Capt. C. S. Riche, U. S. Engr., Sept. 20, 1899, for jetty work in the mouth of the Brazos River, for which $80,000 is available: O'Connor & Smoot, 7,000 tons riprap in place, $3.24 a ton; 12,500 tons of granite in blocks weighing from 5 to 11 tons in place, $4.19 a ton; 22,000 lin. ft. logs in place, 25 cts. a ft. Isaac Heffron, riprap, $3.74 a ton; granite, $4.70 to $4.85 a ton; logs, 13 cts. a ft. Moore & Sieber, riprap, $3.84 a ton; granite, $4.74 a ton; logs, 20 cts. a ft. Chas. Clarke & Co., riprap, $2.69 a ton; granite, $3.59 a ton; logs, 20 cts. a ft. All bids were for amounts as specified in O'Connor & Smoot's bid. Charles Clarke & Co. will be awarded the contract as soon as approved at Washington. The work consists largely in repairing the old jetty and finishing up the heavy stone capping of the work. Only about $60,000 of the appropriation will be spent on the jetty, the remainder being saved for the purpose of dredging the channel.

WELL.—Cullman, Ala.—We are informed that the following contract was let Sept. 25, 1899, to Camfield & Irwin for sinking a 10-in. well: 300 ft. deep or deeper, $2.50 a ft.; 8-in. well, as deep as city desired, but not to exceed 1,000 ft., $2 a ft. The contractor to furnish all casing.

DREDGING.—Sayville, N. Y.—The U. S. Engineers received the following bids Sept. 26, 1899, for dredging in Brown's Creek: Chas. Vivian, Islip, L. I., N. Y., 13¾ cts. a cu. yd., prism measurement; Jos. Leek and John B. Field, Islip, 15½ cts.

STONE FOR JETTIES.—Port Jefferson Inlet (L. I.), N. Y.—The following bids were received by the U. S. Engineers Sept. 26, 1899, for supplying stone for jetties, as advertised in Engineering News: The Hudson Contracting Co., 2465 Broadway, New York, 89 cts. per ton of 2,240 lbs.; Daniel Toomey, Guildford, Conn., $1.50; John P. Conkling, 5189 Broadway, New York, 98 cts.; Eugene S. Belden, 217 Laurel St., Hartford, Conn., 97 cts.; John Beattie, Leete's Island, Conn., 95 cts.

PILE BRIDGE.—Boston, Mass.—The following bids were received by City Engineer Jackson Sept. 26, 1899, for constructing a temporary pile bridge around the draw of the Chelsea bridge, north, preliminary to widening the present draw opening to 60 ft., the items being (a) for furnishing all material and doing all work of building, removing the present draw, setting it on the new foundation and making connections with the present bridge; (b) 5,000 ft. merchantable hard pine; (c) 6,000 ft. hard pine chord sticks; (d) 50 blocks; (e) 20 hooks; (f) 25 angle blocks; (g) 1,000 ft. spruce; (h) 200 sq. yds. paving, including all gravel: William J. Lawlor, (a) $18,688, (b) $50, (c) $100, (d) $1, (e) $3.50, (f) $1.25, (g) $26, (h) 40 cts.; George Hayes, (a) $19,375, (b) $50, (c) $95, (d) $4.50, (e) $4.50, (f) $4.50, (g) $35, (h) 65 cts.; Wm. L. Miller and W. H. Ellis, (a) $20,372, (b) $55, (c) $75, (d) $3, (e) $5, (f) $5, (g) $35, (h) 90 cts.

MACADAM ROAD.—Branford, Conn.—The following bids were received by the selectmen Sept. 22, 1899, for constructing a state macadam road: C. S. Bradley, Branford, 81 cts.; J. S. Lane & Son, Meriden, 92 cts.; Upson & Granniss, New Haven, $1; C. L. Tryon & Son, Meriden, $1.18; Williams & Dewhurst, Bridgeport, $1.34. These bids were per lin. ft. on an 18-ft. road, 12 ft. of which was to be trap rock macadam and the balance hardened with gravel.

MACADAM ROAD.—Chatham, Conn.—A. Brazos & Son, Middletown, Conn., has been awarded the contract, at $1.25 a lin. ft., for constructing a macadam road 16 ft. wide, and $1.10 for a road 14 ft. wide.

MACADAM ROAD.—Bloomfield, N. J.—The Osborne & Marsellis Co., Upper Montclair, N. J., is reported to have been awarded the contract by the Bloomfield township committee, at 44½ cts. a sq. yd., for 8-in. macadam paving, and at 51 cts. for 10-in. paving, and at 22 cts. a cu. yd. for grading.

CEDAR BLOCK PAVING.—Detroit, Mich.—The following bids were submitted by Lennane Bros. last week for cedar block paving on concrete in Gratiot Ave.: Section 1, Sheridan to Newland Ave., 46 ft. wide, not allowing for street car tracks, Medina curbstone, $27,814, or $1.46 6-10 a sq. yd.; Elyria curbstone, $27,476, or $1.41 a sq. yd., respectively, for the two curbstones. Section 2, Newland Ave. to city limits, Medina curbstone, $26,188, or $1.45; Elyria curbstone, $25,864, or $1.43½. Same section, with tracks provided for, $1.64 3-10 and $1.62½ a sq. yd., respectively. Oakland Ave., section 1, Boulevard to Bethune Ave., 26 ft. wide, Henry Merdian, with Medina curbstone, $3,398, or $1.61 a sq. yd.; Elyria curbstone, $3,264, or $1.54 a sq. yd.

LEVEE WORK.—New Orleans, La.—Col. G. McC. Derby, U. S. Engr., received the following lowest bids Sept. 25, 1899, for certain levee work: Mississippi Levee Construction Co., 12.49 cts., each with 62,500 cu. yds., except where otherwise stated, Pontchartrain district, Burtville levee, Woodstock levee, Manchac levee, Grenada levee, Hermitage levee, Towles levee, 43,000 yds.; Atchafalaya district, Kimerick levee, 63,020 yds., 14 1-5 cts.; Ogden Bros. & Parks, Laudry levee, 62,100 yds., 12.97 cts.; Golden Gate levee, 62,900 yds., 13.97 cts.; M. L. Linnan, Mount Olive levee, 62,600 yds., 14 cts.; Forlorn Hope levee, 53,200 yds., 14 cts.; Oak Alley levee, Lafourche district, 57,000 yds., 14½ cts.; F. M. McLaughlin, Pontchartrain district, Thiery levee, 12,600 yds., 14 cts.; St. Delphine levee, Atchafalaya district, 48,000 yds., 16¼ cts.; John Polland, Pontchartrain district, Lorio levee, 12,000 yds., 13.99 cts.; Donovan & Daly, about 500,000 yds., 11 levees, 14.4 cts., 16.9 cts., 18.7 cts., 15.7 cts., 15½ cts., 19.7 cts. and 29¾ cts.; Albert J. Lacaze, 59,000 yds., 15.97 cts. and 12¾ cts.; Edwin P. Brady, 63,000 yds., 14 cts. and 24 cts.; N. P. Phillips, 55,000 yds., 13.25 and 12.25 cts.; Sam'l Robertson, 162,000 yds., 19.50 cts. and 22½ cts.; Helgason Bros., 200,000 yds., 13.95 cts., 17½ cts. and 12.73 cts.; J. W. Whipple & Son, 129,000 yds., 12¾ cts. and 14 cts.; J. R. Marlow, 60,000 yds., 25 cts.; W. A. Miller, 26 cts.

LEVEE WORK.—New Orleans, La.—The contract for 50,000 cu. yds. of levee work in Rapides Parish, has been let to Wm. Robertson & Son, at 24.38 cts. a yd. S. A. Robertson submitted the only other bid at 34.98 cts.——The Orleans Levee Board let a contract Sept. 27, 1899, to Adam Reupel, Leontine St. and the river, as follows, for

a levee 7,000 ft. long: Earth work, 14.78 cts. a cu. yd.; boarding, $29.95 a 1,000 ft., B. M.; logs, $29.95 a 1,000 ft.; removing old lumber, $14.98; filling, 1 ct. a ft.; total, $40,280. The other bidders were: Grigsby Contracting Co., $44,743; J. M. Kelly, $47,823; J. J. Frawley, $52,750.

ASPHALT PAVING.—Newark, N. J.—John F. Shanley submitted the lowest bids Sept. 27, 1899, for asphalt paving in five streets, at $1.93 a yd.; total, $70,115; and also the lowest bid for granite block paving at $2.35 a yd., total, $1,693. The Barber Asphalt Paving Co. submitted the lowest bids for asphalt paving in four streets at $1.95; total, $58,321.

ENGINEERING MATERIAL PRICES

TRACK MATERIAL—
Chicago.—Splice bars, 1.8 to 2.5 cts.; spikes, 2.65 to 2.70 cts.; track bolts, 3.80 to 3.85 cts.
Pittsburg.—Splice bars, 1.75 to 1.90 cts.; spikes, 2.50 to 2.60 cts.; track bolts, 3.10 to 3.25 cts.

RAILS, STEEL—
New York, new, $35; old iron, $23.50 to $24; old steel, $18.50 to $20.
Chicago, new, $33 to $35; old iron, $27 to $28; old steel, $17 to $18.
Pittsburg, new, $33 to $35; old iron, $26 to $27; old steel, $21 to $22.

STRUCTURAL STEEL—
New York—Beams, 2.40 to 2.50 cts.; channels, 2.40 to 2.50 cts.; tees, 2.40 to 2.45 cts.; angles, 2.40 to 2.45 cts.
Chicago—Beams, 2.40 to 2.50 cts.; channels, 2.40 cts.; tees, 2.45 cts.; angles, 2.40 to 2.50 cts.
Pittsburg—Beams, 2.25 to 2.35 cts.; channels, 2.20 cts.; tees, 2.3 cts.; angles, 2.25 cts.; zees, 2.25 cts.

PLATES AND SHEETS—
New York—Universal mill plates, 2.69 to 2.75 cts.; tank, 3 to 3.10 cts.; shell, 3.15 to 3.25 cts.; flange, 3.35 to 3.40 cts.; firebox, 3.45 to 3.55 cts.
Chicago—Universal mill plates, 3.20 cts.; tank, 3.15 to 3.25 cts.; shell, 2.9 cts.; flange, 3.50 to 3.60 cts.; firebox, 4 to 5.5 cts.; sheets, 3.20 to 3.50 cts.
Pittsburg—Universal mill plates, 2.95 cts.; tank, 2.90 to 3.00 cts.; shell, 2.90 cts.; flange, 3 to 3½ cts.; sheets, 3.15 to 3.35 cts.

MERCHANT STEEL—
Machinery, per lb., 2.95 to 3.05 cts.

IRON—
Pig iron:
New York—No. 1, $19; No. 2, $18.
Chicago—No. 1, $23 to $24; No. 2, $22 to $23.
Pittsburg—No. 1, $22 to $23.50; No. 2, $21 to $22.
Bar iron:
Pittsburg—2.30 to 2.40 cts.

LUMBER—
New York:
Hemlock timber, 20 ft. and under, per M, $13.75.
Piling, Eastern spruce, 35 to 40 ft., 30 to 40% 12-in. butts, 4.5 cts.
Yellow pine, random cargoes, $22.50 to $24.50.
North Carolina pine, $2.25 to $2.40 advance over Norfolk rates.
San Francisco:
Oregon pine, per M, $16 to $18.
Redwood, per M, $18.20 to $20.00.
Redwood tank stock, up to 10 ft., $22.

GENERAL MATERIALS—
Lead, New York, 4.60 to 4.65 cts.
Solder, per lb., 14½ to 15 cts.
Spelter, per lb., 5.30 to 5.40 cts.
Copper ingots, 18.50 cts.

INDUSTRIAL NOTES.

EXHIBITS AT THE CONVENTION OF THE EASTERN MAINTENANCE OF WAY ASSOCIATION, AT PORTLAND, ME.

AMERICAN WIRE & STEEL CO., Chicago.—Wire fencing and woven wire fencing with rectangular and diamond mesh.

BUDA FOUNDRY & MFG. CO., Harvey, Ill.—Track drills and other tools.

CLINTON WIRE CLOTH CO., Clinton, Mass.—The Clinton wire fence, with vertical wires electrically welded to the horizontal wires at each intersection.

CONTINUOUS RAIL JOINT CO., Newark, N. J.—Sample sections of the joint applied to different rails.

DILWORTH & PORTER CO., Pittsburg.—The Goldie spike and the Goldie and Glendon tie-plate.

DIAMOND STATE STEEL CO., Wilmington, Del.—Spikes, tie-plates and the Churchill and Diamond rail joints.

FAIRBANKS, MORSE & CO., Chicago.—Barrett track jacks and other tools.

WM. GOLDIE, JR., & CO., Pittsburg.—Wooden plugs (machine made) for filling old spike holes in ties.

HUSSEY, BINNS & CO., Pittsburg.—Tamping shovels, post-hole shovels, scoops, etc.

MANNING IMPROVED RAIL CO., Baltimore.—Sample sections of the Manning unsymmetrical rail, for which an increased life is claimed, and which is now being tried on the B. & O. R. R.

NATIONAL LOCK WASHER CO., Newark, N. Y.—Samples of two forms of spiral nut-locks or washers.

PAGE WOVEN WIRE FENCE CO., Adrian, Mich.—A sample roll of the Page machine-woven fence, made from spirally coiled wire, which takes up all contraction and expansion.

PEARSON JACK CO., Boston.—The Pearson car-replacing jack for use on wrecking apparatus.

Q & C CO., Chicago.—The Q & C and Q & W tie plates; the Priest snow-flanger for locomotives, and the roadbed oiling system.

RAMAPO IRON WORKS, Hillburn, N. Y.—Models of split switches and the Snow automatic switchstand.

ROBERTS, THROP & CO., Three Rivers, Mich.—The Donovan pressed steel wheel, and the Donovan hand-car.

SHERBURN & CO., Boston.—Track tools, tamping bars, gages, levels, etc.

UNITED STATES CAR MOVING DEVICE CO., Lowell, Mass.—A device for pushing cars along sidetracks, etc., by hand, as an improvement upon the pinch bar.

WEBER RAILWAY JOINT MFG. CO., New York.—Samples of the joint as applied to different forms of rails.

F. L. SMIDTH & CO., 66 Maiden Lane, New York, have a contract for a $20,000 cement outfit for Sydney, Australia.

THE B. F. STURTEVANT CO., Boston, has just made a shipment of blowers to the Automatic Furnace Co., London.

THE UNION STEAM PUMP CO., Battle Creek, Mich., is making a shipment of pumps to Newhaus & Pauer, Vienna, Austria.

RINALD BROS., Philadelphia, have removed their office from 32 North 6th St., to the Knickerbocker Building, corner of Arch and 6th Sts.

MONTGOMERY & CO., 105 Fulton St., New York, have an order for shovels, picks, etc., for the Sao Paulo Electric Light & Power Co., Sao Paulo, Brazil.

THE BUFFALO FORGE CO., Buffalo, N. Y., has recently installed a down-draft forge equipment for the Indianapolis shops of the Peoria & Eastern Ry.

THE RITER-CONLEY MFG. CO., Pittsburg, has an order for 5,280 ft. of steel-riveted pipe, 8 ft. in diameter, for the Sao Paulo, Brazil, power plant, according to press reports.

EPPING, CARPENTER & CO., Pittsburg, are reported as preparing for a large export trade in the future, and it is announced will erect a foundry in the spring to make casting for their pumps.

THE NEW CASTLE BRIDGE CO., New Castle, Ind., has been awarded a contract for five bridges by the city of Sault Ste. Marie, Mich., at $74,617. There were ten companies bidding for the work.

A. O. NORTON, Boston, has recently shipped a large order of ball-bearing jacks to Denmark, and reports that within the past 30 days several orders of considerable size have been secured from Australia, South Africa and India.

THE GOULDS MFG. CO., Seneca Falls, N. Y., furnished the two vertical triplex power pumps used at the three electric fountains recently completed at the Crystal Palace, Sydenham, London. The fountains were designed by Mr. F. E. Darlington, Philadelphia.

MERRITT & CO., Philadelphia, have contracts for expanded metal and concrete roofs in the new U. S. Mint building, the Bell telephone building and the new building at the Episcopal Hospital, all in Philadelphia; also in the Camden County, N. J., Insane Asylum, and the St. Paul's Church, Chester.

THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, O., has secured the contract, according to press reports, for the supply of three large traveling cranes, which will be used in the plant of the Dominion Iron & Steel Co., of Sydney, Cape Breton, Nova Scotia, the value of the contract being about $150,000.

C. E. FOWLER, M. Am. Soc. C. E., 11 Broadway, New York, has prepared plans for the steel frames for the new Brooklyn Theatre, 158×168 ft., and for a 10-story apartment house, 92×102 ft., on West End Ave., and has in preparation plans for a large steel frame building for export, and erection plans on the New East River bridge.

J. H. WILLIAMS & CO., Brooklyn, N. Y., erected a grandstand having 540 seats and costing $1,000, for the free and exclusive use of its employees on Friday and Saturday of last week, in order that they might view the naval and land parades of the Dewey celebration. The stand was erected at 92d St. and Riverside Drive, New York.

MANNING, MAXWELL & MOORE, 85 Liberty St., New York, have just shipped to a German iron works, a boring machine claimed to be capable of boring cylinders 20 ft. in diameter. It is said that the spindle is 12 ins. in diameter and that the machine has a center elevation of 10 ft. from the face of the bed plate, the weight being 80 tons and the cost $15,600.

THE NATIONAL TUBE WORKS, McKeesport, Pa., is reported to have shipped nearly 1,000 tons of pipe to Rotterdam last month. Five shipments, aggregating 450 tons, were made to Antwerp, and smaller lots went to Bremen, Hamburg, Glasgow, Liverpool, London, Algoa Bay, Port Natal, Australia, Valparaiso, Copenhagen, Singapore, Rangoon, Bombay and Genoa.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., has a large number of contracts on hand, including orders for a new blacksmith shop, 40×60 ft., for the Bullard Machine Tool Co., Bridgeport; a bridge of three 85-ft. spans at Baldwinsville, N.Y.; a bridge across the lime-rock quarries at Rockland, Me., and three buildings for the Ottawa Carbide Co., Ottawa, Canada.

THE HANCOCK INSPIRATOR CO., Boston, announces that hereafter the Hancock inspirator can be purchased only direct from the company, all agencies having been discontinued; also that it has brought suit against the Hayden & Derby Mfg. Co., New York, and Bridgeport, for infringement of the patent under which its double-tube locomotive inspirator is manufactured.

THE UNION AKRON CEMENT CO., 141 Erie St., Buffalo, N. Y., is furnishing the Akron "Star" brand cement in constructing a large four-story terminal warehouse for the N. C. Railway at Baltimore; also for building a large addition to the American Steel & Wire Co.'s works at Worcester, Mass., and for building a dam across the Black River, near Carthage, N. Y., for the St. Regis Paper Co.

THE STOW FLEXIBLE SHAFT CO., Philadelphia, reports that the increased demand for its flexible shaft has required it to more than double its working force within the last six months. The company makes all the tools and machines operated with its flexible shaft and has recently purchased the Peck air drill and seamer. It also manufactures engines, pumps and machinery of special design. It makes a compressed air motor of the oscillating cylinder type, provided with gearing for change of speed as desired.

THE LEWIS FOUNDRY & MACHINE CO., Pittsburg, says a local paper, is building a 550-ton No. 5 Garrett continuous rod mill for the Phoenix union, at Hamm, Westphalia, Germany, which will cost $80,000; a universal mill costing $30,000, and surpassed only by the Carnegie universal mill, for Austria, and about $25,000 worth of iron and steel working machinery for Russia. A smaller order of the latter kind is being made for Mexico. In all there will be from 900 to 1,200 tons of machinery shipped to Westphalia. The capacity of the rod mill will be 550 tons or 550,000 rods, in nine hours.

NEW COMPANIES.—**Mutual Telephone Co., Davenport,** Ia.; $25,000; to operate a telephone system; **Robert Moir,** Jr., Robert Hodgson, Walter Stutts, R. F. Robinson.

American Zinc Mining Co., Corporation Trust Co.'s Bldg., Jersey City, N. J.; $500,000; mining of zinc; E. Hope Norton, Elliott C. Smith, W. E. Young, Thos. R. Evans.

Sloss-Sheffield Steel & Iron Co., 243 Washington St., Jersey City, N. J.; $20,000,000; to manufacture steel and iron; John B. Summerfield, Saml. B. Lawrence, Ansel L. White, New York; George E. Spencer, Brooklyn, N. Y.

The Syracuse, Rochester & Lake Ontario Telephone Co.; $1,000,000; to operate in Syracuse, Rochester, Oswego, Auburn, Geneva and intermediate places; Sherman E. and Alvin B. Bishop, A. M. Graham, Clyde; J. Strauss, William Scott, Chas. Towlerton, Lyons, N. Y.

Belle Forest Gold Mining Co., New York; $1,000,000; to do a general mining and milling business; G. W. Dresser, F. L. Tipscott, E. L. Davis, W. G. Davis, T. F. Farrell, New York.

Turner Tanner Machinery Co., Boston, Mass.; $700,000; to do a general manufacturing business; G. A. P. Flogg, W. A. Copeland, Boston; J. Middleby, Lexington.

Indiana Portland Cement Co., Jersey City, N.J.; $1,500,000; to manufacture cement; Joel H. Fuller, Frank C. Cain, H. Lindale Smith.

Riverside Bridge & Machine Works, Wheeling, W. Va.; $100,000; to build and repair bridges and all kinds of machinery; C. F. Dickerson, L. Spence, J. K. Hall, W. S. Simpson, A. L. Hupp, of Wheeling, W. Va.

Electrical Construction Co., Indianapolis, Ind.; $[illegible]; C. Fleming, L. L. Lancaster, J. H. Murphy, Indianapolis.

Railway Company General, Trenton, N. J.; $10,000,000; to operate and construct railways of all kinds; Howard F. Gleen, James Uher Clarke, Robert I. McKinney.

Consolidated Iron & Steel Co., New Jersey Corporation Guarantee & Trust Co.'s Bldg., Camden, N. J.; $50,000; H. H. Adams, F. R. Hansell, W. S. Abernethy.

Lickdale Steel Co., Lickdale, Pa.; $5,000; S. K. Lig[illegible], R. Melley, J. H. Roberts, J. H. Hunsicker, Lebanon.

The Industrial Tube Co., Chicago, Ill.; $20,000; H. [illegible] Murray, F. F. Oviatt, F. W. Wilson, Chicago.

American Steel-Body Double-Bolster Co., 76 Montgomery St., Jersey City, N. J.; $350,000; to manufacture steel bolsters, etc.; Clarence H. Howard, Morse B. Shaff, Boone V. H. Johnson, Oliver T. Ledford, all of St. Louis.

Parker Steel Corner Plate Co., Cleveland, O.; $10,000; to manufacture and sell corner plates; E. Oliver, M. [illegible] Tiffany, W. J. Patterson, all of Cleveland.

Rees Automatic Indicator Co., 53 Montgomery St., Jersey City, N. J.; $200,000; to manufacture automatic indicators; F. H. Rees, Wilbur R. Baldwin, Elmira, N. Y.

Carter Steel & Iron Co., of East Tennessee, 8 New Warren St., Trenton, N. J.; $300,000; to manufacture iron and steel; Chas. H. Baker, Henry U. Coleman, Trenton.

Merchants' Electric Co., 49 Montgomery St., Jersey City, N. J.; $15,000; to manufacture electrical apparatus; William G. Stickney, Charles C. Kelly, Jersey City, N. J.

American Aron Electricity Meter Co., 239 Washington St., Jersey City, N. J.; $500,000; to manufacture electric meters; E. H. Bennett, Burnet C. Kenyon, Fred. T. Grover, all of Elizabeth, N. J.

Ohio Steel Mfg. Co., Newark, N. J.; $125,000; to manufacture steel; Edmund G. Fisher, Harry B. Stewart, John C. Welt, Joseph H. Holroyd, John W. Albaugh, all of Canton, O.

Shawmut Construction Co., 167 Main Ave., Passaic, N. J.; $50,000; to construct vessels, etc.; Simeon M. Ayers, Frederick W. Frost, L. Fred Schmidt, William T. Yates, New York; S. H. Ayers, Arlington, N. J.

South Chester Tube Co., Chester, Pa.; $1,000,000; to manufacture iron and steel; W. S. McManes, L. A. Tucker.

Sterrit Thomas Foundry Co., Pittsburg, Pa.; $60,000; to manufacture iron and steel; W. B. Sterrit, D. J. Thomas, C. Bauer, E. A. Spencer, Pittsburg; H. B. Spiker, Aspinwall, Pa.

Atlantic Automobile Mfg. Co., Portland, Me.; $500,000; to deal in self-propelled vehicles; H. Adams, Kingston, Mass.; W. F. Marsh, L. J. Wilber, E. H. Reynolds, A. E. Marsh, all of Brockton, Mass.

Sim Iron Co., Charleston, W. Va.; $5,000,000; to work farms and plantations; C. C. Buery, Claremont, W. Va.; G. C. Schoolfield, Charleston; C. A. Cabell, G. H. Powell.

Perry Railway Combination Frog & Switch Co., San Francisco, Cal.; $100,000; to manufacture and sell machinery and appliances in general; H. Dow, C. W. Taber.

United Incandescent Light Co., 765 Broad St., Newark, N. J.; $200,000; to manufacture incandescent lamps, etc.; Raymond C. Spaulding, Newark, N. J.; Frank M. Hill.

Baldwin & Sebago Telephone Co., Cornish, Me.; $10,000; to operate a telephone line; Lorenzo Norton, Pres., East Baldwin, Me.; W. H. Fitch, Treas., Sebago, Me.

J. H. Melavin Fire & Mill Supply Co., Portland, Me.; $150,000; to manufacture apparatus for fire fighting and automatic sprinkling; J. H. Melavin, Pres.; James F. Mullin, Treas., both of Cambridgeport, Mass.

Scranton & Stroudsburg Telephone Co., Scranton, Pa.; $10,000; Elwood D. Dunning, South Sterling, Pa.; O. L. E. Vaugh, Moscow, Pa.; W. J. Martin, Scranton.

American Construction Co., Alexandria, Va.; $200,000; general building and construction business; J. F. Manning, A. A. Birney, of Washington; D. C. L. Wechsler, New York.

United Electric Construction Co., Kittery, Me.; $200,000; to operate telephones and electrical devices; F. O. Small, Boston, Mass.; L. B. Harrison, Plymouth, Mass.; F. E. Rowell, Kittery.

International Telephone & Switchboard Co.; $1,000,000; to manufacture telephones, switchboards, etc.; L. B. Grant, Brooklyn, N. Y.; Thomas S. White, New York; Jas. C. Pope, Plainfield, N. J.

Wayne Construction Co., Fort Wayne, Ind.; $5,000; to manufacture, operate and install electric railways, waterworks, electric plants, etc.; J. C. Knight, H. C. Knight, A. M. Rockwell, all of Ft. Wayne.

Eureka Steel Mfg. Co., Kokomo, Ind.; $50,000; to manufacture steel or carbonized iron; W. A. Hyle, F. J. Hanna, W. C. McCune, G. W. Kelly, all of Kokomo.

Wharton & Bay City Telephone Co., Bay City, Tex.; $5,000; to construct telephone lines in Wharton, Matagorda and Brazoria counties; C. D. Kemp, Gerard Harrison, Frank Rugely and N. M. Voglesang.

The Tuscarora Telephone Co., Easton, Pa.; $50,000; to construct telephone lines; A. G. Scholl, Mifflintown, Pa.; J. G. Thompson, Mexico, Pa.; I. N. Grubb, Thompsontown, Pa.

Lewis Motor Vehicle Mfg. Co., Philadelphia, Pa.; $50,000; to manufacture iron and steel and motor vehicles; H. H. Simpers, L. Pyott, D. C. Clarke, J. W. Graham, Philadelphia, Pa.

United States Motor Vehicle Co., Corporation Trust Co. Bldg., Jersey City, N. J.; $1,500,000; to manufacture motor vehicles; Cornelius J. Field, Willard P. Reid, Frank H. Field.

Sprague Car Appliance Co., Portland, Me.; $300,000; to manufacture car appliances; W. R. May, Pres., Milton, Mass.; C. F. Johnson, Treas., Belmont, Mass.

Schuylkill Iron & Steel Co; $5,000,000; to conduct an iron and steel business; Henry Delaplan, Merion, Pa.; James Mortimer West, Jr., Philadelphia, Pa., and William M. Tennison, Camden, N. J.

Twin Lake Placers, Buena Vista, Colo.; $60,000; D. H. Barry, J. E. Percival, J. W. Bloom, E. Philpot, all of London, England.

Steam Motor Engine Stop Co., Portland, Me.; $500,000; to manufacture stops for all kinds of engines; G. E. Clifford, Pres., Fitchburg, Mass.; F. A. Teele, Treas., Somerville, Mass.

Montreal Construction Co., Jersey City, N. Y.; $500,000; A. M. Irving, R. J. Campbell, Jr., E. A. Reser, of New York.

Buffalo Dry-Dock Co., Buffalo, N. Y.; $575,000; to do general dry-dock and manufacturing business; W. A. Prime, J. D. Redding, of New York; A. F. Clark, Brooklkn, N. Y.

International Electric Car Lighting Co., Philadelphia, Pa.; $110,000; to manufacture and deal in patent apparatus for lighting; W. S. Dunlap, C. E. Lent, J. E. Lewis, T. R. Heller, E. A. Ryan, all of Philadelphia, Pa.

Southern Construction Co., Norfolk, Va.; $50,000; to undertake contract work; John Y. Gossier, Pres.; Charles Wire, Vice-Pres.; Jesse R. Kimes, Secy. and Treas., all of Philadelphia, Pa.

Alberta Mining Co., Chicago, Ill.; $10,000; mining, manufacturing and general mercantile business; R. W. Evans, T. D. Williams, T. R. Taylor, of Chicago.

Mechanical Equipment Co., Chicago; $10,000; manufacturing machinery, etc.; G. A. E. Kohler, F. W. Kohler, H. C. Mallory, of Chicago.

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